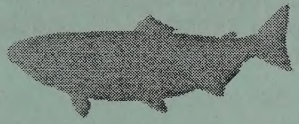
National Marine Fisheries Service

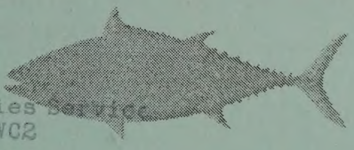
# SOUTHWEST REGION

300 S. Ferry Street
Terminal Island, CA 90731



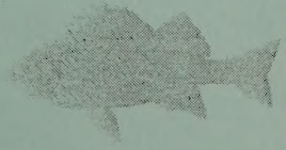
## CURRENT YEAR OPERATION PLANS

## FOR FISCAL YEAR 1989



Library
NOAA, National Marine Fisheries Service
SWFC Honolulu Laboratory F/SWC2
2570 Dole Street
Honolulu, HI 96822-2396

**NOVEMBER 1988**



ADMINISTRATIVE REPORT SWR-88-4

This Administrative Report is issued as an informal document to ensure prompt dissemination of preliminary results, interim reports and special studies. We recommend that it not be abstracted or cited.

# NATIONAL OCEAN AND ATMOSPHERIC ADMINISTRATION
# NATIONAL MARINE FISHERIES SERVICE
# SOUTHWEST REGION
# CURRENT YEAR OPERATION PLANS FOR FISCAL YEAR 1989

This report presents the FY 1989 Current Year Operation Plans (CYOPs) of the Southwest Region. Budget summaries for each Task and for each office and laboratory are also presented.

The Current Year Task Plans of the Southwest Region set out the objectives, significance or justification, resources, activities, events and milestones for each project (Task) undertaken by the Region during the fiscal year. In several cases two or more Tasks may constitute elements of a larger program.

The CYOPs are plans, and as such, represent the best estimates that the staff could make during the Fall of 1988. The user is cautioned to use the data only as estimates; details of budget or program changes put into effect since October 1, 1988 can be obtained from the Regional Director or from the Science and Research Director, Southwest Region.

Finally, the information concerning detailed allocations among budget classes (labor, contracts, travel, etc.) presented in this revision should be handled cautiously so as to safeguard the Government's competitive procurement process.

Library
NOAA, National Marine Fisheries Service
SWFC Honolulu Laboratory F/SWC2
2570 Dole Street
Honolulu, HI 96822-2396

SWR Administrative Report No. SWR-88-4

FORM A

NOAA FISHERIES
FY 1989 CURRENT YEAR OPERATION PLAN

REGIONAL INDEX

FMC - SWR

APPROVAL SIGNATURE [signature] TITLE

| CYOP REF# | TITLE | TASK LEADER | FTE | AMOUNT ($K) |
|---|---|---|---|---|
| 001 | Director's Office, T.I. CA | E. C. Fullerton | 11.6 | 626.8 |
| 050 | Center Support | I. Barrett | 16.7 | 931.5 |
| 051 | Scientific Services | J. Carr | 7.0 | 289.1 |
| 052 | Information Technology Services | D. Roll | 6.0 | 265.3 |
| 053 | Fishery Information Network | J. Carr | 3.0 | 178.9 |
| 060 | Senior Scientist Unit | W. Perrin | 2.6 | 120.0 |
| 061 | UNLV Limnological Research | J. Carr | 0.0 | 400.0 |
| 062 | Tiburon Move | B. Remington | 0.0 | 94.0 |
| 101 | Fisheries Management and Analysis | S. Fougner | 8.8 | 498.7 |
| 102 | Tuna/Porpoise Management | N. Mendes | 29.8 | 1,077.6 |
| 103 | Habitat Conservation | J. Slawson | 8.0 | 359.4 |
| 104 | Protected Species | J. Lecky | 6.3 | 301.4 |
| 201 | Industry Analysis and Information | J. Dentler | 2.5 | 167.7 |
| 202 | Tuna Fishery Monitoring Program | G. Yamasaki | 3.5 | 200.0 |
| 203 | Statistics and Market News Program | P. Donley | 2.8 | 116.3 |
| 204 | Trade Analysis Program | S. Sonu | 4.2 | 390.7 |
| 301 | Pop. Biol. of Fish of Coastal E. Pacific | J. Hunter | 8.5 | 338.1 |
| 304 | Fisheries Environmental Investigation | R. Laurs | 6.0 | 271.4 |
| 318 | Ecology and Systematics of Fishes | H. Moser | 5.0 | 210.4 |
| 319 | Coastal & Pacific Fisheries Resource Investigation | R. Charter | 9.5 | 406.6 |
| 320 | Survey Systems Development and Evaluation | P. Smith | 4.9 | 236.7 |

ECOSYSTEM ARRAY ($K)

| N. ATL. SHELF | S. ATL. & GOM SHELF | ATL. OCEANIC | CAL. CURRENT | PAC. OCEANIC | GOA & BERING | ANT-ARCTIC | OTHER | TOTAL |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

FORM A

NOAA FISHERIES
FY 1989 CURRENT YEAR OPERATION PLAN

REGIONAL INDEX

FMC - SWR

APPROVAL SIGNATURE [signature] TITLE ______

| CYOP REF# | TITLE | TASK LEADER | FTE | AMOUNT ($K) |
|---|---|---|---|---|
| 330 | Commercial and Recreational Fish. Mgmt. | D. Huppert | 6.8 | 408.5 |
| 401 | Tuna and Large Pelagics Stock Investigation | N. Bartoo | 7.0 | 366.2 |
| 411 | Fisheries Data Monitoring | A. Coan | 9.5 | 337.7 |
| 421 | Tuna and Pelagic Fisheries Investigation | G. Sakagawa | 3.0 | 180.3 |
| 510 | Fishery Independent Assessment-Marine Mammals | R. Holt | 14.1 | 746.4 |
| 520 | Biological Assessment Program - Marine Mammals | A. Dizon | 6.5 | 240.1 |
| 530 | Fishery Dep. Assess. Program - Marine Mammals | S. Reilly | 7.0 | 279.0 |
| 540 | Coastal Marine Mammals | P. Boveng | 2.0 | 118.3 |
| 601 | Antarctic Ecosystem Research | I. Barrett | 4.5 | 1,300.0 |
| 700 | Honolulu Laboratory Administration | G. Boehlert | 7.8 | 390.1 |
| 701 | Data Mgmt. and Technical Service | D. Tieman | 15.0 | 549.2 |
| 710 | Fishery Oceanography Program | G. Boehlert | 3.9 | 162.4 |
| 720 | Pelagic Stock Assessment Program | J. Wetherall | 3.0 | 163.0 |
| 721 | Pelagic Ecosystem Program | C. Boggs | 4.0 | 205.5 |
| 722 | Pelagic FMP Research Program | R. Skillman | 2.8 | 146.3 |
| 730 | Insular Stock Assessment | D. Somerton | 6.0 | 213.4 |
| 731 | Seamount Resources | D. Somerton | 5.0 | 200.5 |
| 732 | Fishery Enhancement and Dynamics | J. Polovina | 7.0 | 311.4 |
| 733 | Hawaii Stock Mgmt. Program | G. Boehlert | 0.0 | 400.0 |
| 740 | Fishery Management Research Program | S. Pooley | 8.9 | 334.1 |
| 750 | Marine Mammal and Endangered Species | W. Gilmartin | 7.9 | 335.3 |

ECOSYSTEM ARRAY ($K)

| N. ATL. SHELF | S. ATL. & GOM SHELF | ATL. OCEANIC | CAL. CURRENT | PAC. OCEANIC | GOA & BERING | ANT-ARCTIC | OTHER | TOTAL |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

FORM A

# NOAA FISHERIES
## FY 1989 CURRENT YEAR OPERATION PLAN

REGIONAL INDEX

FMC - SWR

APPROVAL SIGNATURE ______________ TITLE ______________

| CYOP REF# | TITLE | TASK LEADER | FTE | AMOUNT ($K) |
|---|---|---|---|---|
| 800 | Tiburon Laboratory Administration | A. MacCall | 9.7 | 488.9 |
| 811 | Groundfish Analysis Investigation | W. Lenarz | 10.0 | 428.9 |
| 812 | Groundfish Communities | E. Hobson | 7.0 | 252.6 |
| 813 | Physiological Ecology of Groundfish | J. Whipple | 6.9 | 316.8 |
| 901 | Pacific Fisheries Environmental Group | A. Bakun | 11.3 | 555.0 |
| | | TOTAL | 323.2 | 16,910.5 |

ECOSYSTEM ARRAY ($K)

| N. ATL. SHELF | S. ATL. & GOM SHELF | ATL. OCEANIC | CAL. CURRENT | PAC. OCEANIC | GOA & BERING | ANT-ARCTIC | OTHER | TOTAL |
|---|---|---|---|---|---|---|---|---|
| | | | 5915.6 | 9095.8 | | 1499.1 | 400.0 | 16,910.5 |

FORM B

NOAA FISHERIES
FY 1989 CURRENT YEAR OPERATING PLAN

REGIONAL LOCATION SUMMARY



| LOCATION | CYOP REF. NO. | TASK NO. | FTE | TOTAL ($K) |
|---|---|---|---|---|
| 1. Terminal Island, CA | 001 | 9WGN4000 | 10.6 | 531.8 |
| | 101 | 8L2A6CFM | 7.0 | 418.7 |
| | 103 | 8L2C14HC | 2.2 | 111.1 |
| | 104 | 8L2B3UCA | 4.2 | 220.0 |
| | 201 | 8L1B2ATA | 1.5 | 67.7 |
| | 202 | 8L1B2CTT | 0.3 | 30.0 |
| | 203 | 8L2A4NMA | 2.0 | 83.9 |
| | | 8L2A3NMN | 0.8 | 32.4 |
| | 204 | 8L3B2LTA | 4.2 | 390.7 |
| LOCATION TOTAL | | | 32.8 | 1,886.3 |
| 2. San Diego, CA (La Jolla) | 102 | 8L2B2TMP | 7.2 | 305.5 |
| | | 8L2B2TBT | 22.6 | 772.1 |
| | 050 | 9WGN40C0 | 8.0 | 469.8 |
| | | 9WGN40L0 | 6.7 | 235.5 |
| | | 9WGN40M0 | 2.0 | 226.2 |
| | 051 | 8L1C1ALL | 2.0 | 85.1 |
| | | 8L1C1AY0 | 3.0 | 119.5 |
| | | 8L1C1ALT | 2.0 | 56.0 |
| | | 8L1C1ATT | 0.0 | 28.5 |
| | 052 | 8L1C1AGO | 6.0 | 265.3 |
| | 053 | 8L1C1AUW | 2.0 | 100.0 |
| | | 8L1C1AUP | 1.0 | 78.9 |
| | 060 | 8L1C5VP1 | 2.6 | 120.0 |
| | 061 | 8L1A1A00 | 0.0 | 400.0 |
| | 062 | 8L1A1ATM | 0.0 | 94.0 |
| | 301 | 8L1A3AA0 | 8.5 | 338.1 |
| | 304 | 8L1A4BE0 | 6.0 | 271.4 |
| | 318 | 8L1A3AG0 | 5.0 | 210.4 |
| | 319 | 8L1A6AH0 | 9.5 | 406.6 |
| | 320 | 8L1A6AJ0 | 4.9 | 236.7 |
| | 330 | 8L1C2AS0 | 6.0 | 268.5 |
| | | 8L1C2AS2 | 0.8 | 140.0 |

FORM B

NOAA FISHERIES
FY 1989 CURRENT YEAR OPERATING PLAN

REGIONAL LOCATION SUMMARY



| LOCATION | CYOP REF. NO. | TASK NO. | FTE | TOTAL ($K) |
|---|---|---|---|---|
| 2. San Diego, CA (con't) | 401 | 8L1C5AB2 | 4.5 | 231.7 |
| | | 8L1C5AB1 | 1.0 | 64.8 |
| | | 8L1C2A20 | 1.5 | 69.7 |
| | 411 | 8L1C1AW1 | 4.0 | 162.2 |
| | | 8L1C1VW2 | 5.5 | 175.5 |
| | 421 | 8L1C2A30 | 2.0 | 84.0 |
| | | 8L1C2A40 | 1.0 | 96.3 |
| | 510 | 8L1C4VA1 | 3.0 | 124.8 |
| | | 8L1C4VA2 | 3.5 | 174.3 |
| | | 8L1A6VW0 | 4.9 | 309.8 |
| | | 8L1A5VR4 | 2.7 | 137.5 |
| | 520 | 8L1A5VU1 | 3.5 | 119.8 |
| | | 8L1A5VU2 | 3.0 | 120.3 |
| | 530 | 8L1A6AW1 | 5.5 | 224.0 |
| | | 8L1A6AW2 | 1.5 | 55.0 |
| | 540 | 8L1A5VR1 | 2.0 | 118.3 |
| | 601 | 8L1A6H01 | 4.5 | 1,300.0 |
| LOCATION TOTAL | | | 159.4 | 8,796.1 |
| 3. Honolulu, HI | 001 | 9WGN4000 | 1.0 | 95.0 |
| | 101 | 8L2A6CFM | 1.8 | 80.0 |
| | 103 | 8L2C14WP | 1.0 | 61.7 |
| | 104 | 8L2B3UWP | 2.0 | 81.4 |
| | 700 | 9WGN40H1 | 1.8 | 114.0 |
| | | 9WGN40H2 | 6.0 | 276.1 |
| | 701 | 8L1C1AJ1 | 8.2 | 314.5 |
| | | 8L1C1AJ2 | 5.4 | 169.7 |
| | | 8L1C1AJ4 | 1.4 | 65.0 |
| | 710 | 8L1A7A00 | 3.9 | 162.4 |
| | 720 | 8L1C5AC0 | 3.0 | 163.0 |
| | 721 | 8L1A6AK0 | 4.0 | 205.5 |
| | 722 | 8L1C1A00 | 2.8 | 146.3 |
| | 730 | 8L1C5AH1 | 6.0 | 213.4 |

FORM B

NOAA FISHERIES
FY 1989 CURRENT YEAR OPERATING PLAN

REGIONAL LOCATION SUMMARY

FMC SWR | PAGE 3 OF 3

| LOCATION | CYOP REF. NO. | TASK NO. | FTE | TOTAL ($K) |
|---|---|---|---|---|
| 3. Honolulu, CA (con't) | 731 | 8L1A6AE0 | 5.0 | 200.5 |
| | 732 | 8L1A4BRS | 7.0 | 311.4 |
| | 733 | 8L1A1A01 | 0.0 | 400.0 |
| | 740 | 8L1C2AP0 | 8.1 | 260.7 |
| | | 8L1C2AP1 | 0.8 | 73.4 |
| | 750 | 8L1A3VW0 | 5.9 | 264.0 |
| | | 8L1A3VW1 | 2.0 | 71.3 |
| LOCATION TOTAL | | | 77.1 | 3,729.3 |
| 4. Tiburon, CA | 201 | 8L1B2ATA | 1.0 | 100.0 |
| | 800 | 9WGN40T2 | 8.7 | 422.0 |
| | | 9WGN40T3 | 0.0 | 7.5 |
| | | 9WGN40T0 | 0.0 | 8.5 |
| | | 8L1C1AGT | 1.0 | 50.9 |
| | 811 | 8L1C2AM0 | 10.0 | 421.4 |
| | | 8L1C1ADP | 0.0 | 7.5 |
| | 812 | 8L1A3AP0 | 7.0 | 252.6 |
| | 813 | 8L1A3AT0 | 6.9 | 316.8 |
| LOCATION TOTAL | | | 34.6 | 1,587.2 |
| 5. Santa Rosa, CA | 103 | 8L2C14NC | 4.8 | 186.6 |
| 6. Monterey, CA | 901 | 8L1C5B00 | 11.3 | 555.0 |
| 7. American Samoa | 202 | 8L1B2CTT | 3.2 | 170.0 |
| | | TOTALS | 323.2 | 16,910.5 |

FORM 1

# NOAA FISHERIES
## CURRENT YEAR OPERATING PLAN

| DATE | October 7, 1988 | |
|---|---|---|
| FMC | REF. NO. | PAGE |
| SWR | 001 | 1 OF 5 |

RESOURCE SUMMARY

APPROVAL SIGNATURE -> [signature] TITLE -> Director's Office, T.I., CA

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | > |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 9WGN4000 | | | | |
| DIRECT LABOR | 427.0 | | | | 427.0 |
| PERS. BENEFITS | 79.0 | | | | 79.0 |
| TRAVEL | 45.1 | | | | 45.1 |
| TRANSPORTATION | 1.0 | | | | 1.0 |
| RENT, COMM., UTIL. | 60.6 | | | | 60.6 |
| PRINT/REPROD. | 2.5 | | | | 2.5 |
| CONTRACTS | 7.3 | | | | 7.3 |
| SUPPLIES/MATERIAL | 4.3 | | | | 4.3 |
| EQUIPMENT | | | | | |
| GRANTS | | | | | |
| TOTALS -> | 626.8 | | | | 626.8 |
| FTE (FTP) | 10.0 | | | | 10.0 |
| FTE (OTFTP) | 1.6 | | | | 1.6 |

| VESSELS # SEA DAYS ALLOC. | |
|---|---|
| | |
| NOAA | CHARTERS |
| | |
| # FREE DAYS | |
| | |

CROSS REFERENCES

FORM 2

# NOAA FISHERIES
## CURRENT YEAR OPERATING PLAN

| FMC | REF. NO. | PAGE |
|---|---|---|
| SWR | 001 | 2 OF 5 |

EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Director's Office | Terminal Is. | 11.6 | 626.8 | E.C. Fullerton | Management Fund |

A. PROBLEM STATEMENT/OBJECTIVE: The office of the Regional Director serves as the representative of the Assistant Administrator for Fisheries in the Southwest Region for all policy actions, program activities, and interactions with the private and public sectors.

B. METHODOLOGY/APPROACH: The office assesses, manages and promotes the conservation and management of living marine resources. It oversees the provision of accurate and timely products, services and information to its constituency. Further, the office supports private sector development through the transfer of science and technology, reductions in administrative barriers and promotion of commercial and recreational business growth. It also provides program guidance through the development of explicit, time-phased plans for short- and long-range goals and evaluate programs periodically to assess their relative balance in resource allocation. Finally, the office provides for and maintains efficient management practices, administrative procedures and supervision of allocated human, financial and material resources.

C. PRODUCT/SERVICES: Through the programs administered by the Regional Director, close and effective relationships within and between the users of living marine resources are developed and maintained. Users are also provided with rationale and justification for policy actions and program activities.

D. CLIENTS: The general public; environmental, conservation and protection groups; commercial and recreational fishing industries; recreational fishermen; educational institutions; representatives of state and local governments; and foreign fishing interests.

E. CONTRACTS: None.

FORM 3

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

| FMC | REF. NO. | PAGE |
|---|---|---|
| SWR | 001 | 3 OF 5 |

PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| 1. E. Charles Fullerton | Regional Director | SES 2 | 100 | 9WGN4000 |
| 2. J. Gary Smith | Deputy Regional Director | GM/15/0 | 100 | " |
| 3. Doyle E. Gates | Pacific Island Coordinator | GM/14/0 | 100 | " |
| 4. Vacant | No. Area Coordinator | GM/14/0 | 100 | " |
| 5. Ronald B. Scheltens | Executive Officer | GM/13/0 | 100 | " |
| 6. Mark Helvey | Marine Rec. Fish Coord. | GS/12/4 | 100 | " |
| 7. Maryann Rodriguez | Writer Editor | GS/7/8 | 100 | " |
| 8. Leona D. Stevenson | Secretary | GS/7/10 | 100 | " |
| 9. Florence R. Canlis | Admin. Svcs. Assistant | GS/7/8 | 100 | " |
| 10. Melva L. Washington | Computer Programmer | GS/7/3 | 80 | " |
| 11. Erika N. Mont | Admin. Support Clerk | GS/6/6 | 100 | " |
| 12. Janine M. Butler | Data Transcriber | GS/4/1 | 80 | " |
| 13. Julia N. Caracoza | Clerk Typing | GS/4/1 | 100 | 8L1B2CTT |

FORM 4

# NOAA FISHERIES
## CURRENT YEAR OPERATING PLAN

| FMC | REF. NO. | PAGE |
|---|---|---|
| SWR | 001 | 4 OF 5 |

MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 9WGN4000 | 1 | M | Complete annual review of federally funded Pacific Is. fisheries development projects and recommend priorities for S-K solicitation. | N | | | | | | | |
| " | 2 | M | Design and prepare brochure on Hawaiian humpback whale watching regulations. | N | | | | | | | |
| " | 3 | M | Complete evaluation for the placement of a NOAA network position position supported by NOAA Fisheries in the Pacific Islands. | D | | | | | | | |
| " | 4 | M | Complete assessment of regional FRS system and implement the modifications. | | J | | | | | | |
| " | 5 | M | Develop and disseminate brochure, press release and magazine article on the dangers of hand feeding sea lions. | | J | | | | | | |
| " | 6 | M | Complete joint State-Federal MRF workshop for Hawaii. | | F | | | | | | |
| " | 7 | E | Complete assessment of South Pacific Treaty requirements and prepare recommendations for any modifications. | | F | | | | | | |
| " | 8 | M | Complete annual review of the South Pacific Treaty with DOS and the tuna industry. | | M | | | | | | |
| " | 9 | M | Complete development of a MRF database program for the SWR. | | M | | | | | | |
| " | 10 | M | Complete MRF long-range plan for Hawaii. | | | M | | | | | |
| " | 11 | E | Conduct annual technical and constituent reviews of S-K projects. | | | | A | | | | |

FORM 4

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

| FMC | REF. NO. | PAGE |
|---|---|---|
| SWR | 001 | 5 OF 5 |

MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 9WGN4000 | 11 | E | Conduct annual technical and constituent reviews of S-K proposals. | | | | J | | | | |
| " | 12 | M | Complete ranking recommendations for Pacific Island area S-K projects. | | | | A | | | | |
| " | 13 | A | Prepare and distribute newsletters on SWR/SWC/CDFG programs and joint fisheries management activities. | - | - | - | - | - | - | - | - |
| " | 14 | A | Participate in public education and outreach programs to improve understanding of NOAA Fisheries programs. | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | |
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FORM 1

# NOAA FISHERIES
# CURRENT YEAR OPERATING PLAN

| DATE | October 1988 | |
|---|---|---|
| FMC | REF. NO. | PAGE |
| SWR | 050 | 1 OF 3 |

RESOURCE SUMMARY

FY 89

APPROVAL SIGNATURE -> John F. Carr    TITLE -> Center Support

HQ CONTACT(S) ->

| TASK NAMES -> | Director | L.J. Admin Support | L.J. Bldg. & Grounds | | V |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 9WGN40C0 | 9WGN40L0 | 9WGN40M0 | | |
| DIRECT LABOR | 374.0 | 130.2 | 63.0 | | 567.2 |
| PERS. BENEFITS | 55.8 | 19.4 | 9.3 | | 84.5 |
| TRAVEL | 36.0 | 6.6 | | | 42.6 |
| TRANSPORTATION | 1.0 | 13.5 | | | 14.5 |
| RENT,COMM.,UTIL. | | 30.8 | 94.3 | | 125.1 |
| PRINT/REPROD. | | 1.0 | | | 1.0 |
| CONTRACTS | .0 | 6.0 | 44.0 | | 50.0 |
| SUPPLIES/MATERIAL | 2.0 | 25.0 | 15.0 | | 42.0 |
| EQUIPMENT | 1.0 | 3.0 | .6 | | 4.6 |
| GRANTS | | | | | |
| TOTALS -> | 469.8 | 235.5 | 226.2 | | 931.5 |
| FTE (FTP) | 8.0 | 6.0 | 2.0 | | 16.0 |
| FTE (OTFTP) | | .7 | | | .7 |

| VESSELS # SEA DAYS ALLOC. | |
|---|---|
| | |
| NOAA | CHARTERS |
| | |
| # FREE DAYS | |
| | |

CROSS REFERENCES

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

FY 89

EXECUTIVE SUMMARY

| FMC | REF. NO. | PAGE |
|---|---|---|
| SWR | 050 | 2 OF 3 |

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Center Support | La Jolla, CA | 16.7 | 931.5 | I. Barrett | General Support |

A. PROBLEM STATEMENT/OBJECTIVE:

Center management and La Jolla support

B. METHODOLOGY/APPROACH:

C. PRODUCT/SERVICES:

Management and Administration support related to Region/Center programs

D. CLIENTS:

Region/Center/NMFS programs and goals

E. CONTRACTS:

No research contracts

FORM 3

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

| FMC | REF. NO. | PAGE |
|---|---|---|
| SWR | 050 | 3 OF 3 |

PERSONNEL SCHEDULE

FY 89

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| 1. Barrett, Izadore | Director | ES IV | 100 | 9WGN40C0 |
| 2. Carr, John F. | Deputy Director | GM-15 | 100 | " |
| 3. Mackett, David J. | Planning Officer | GM-14 | 100 | " |
| 4. Remington, Benjamin F. | Executive Officer | GM-13 | 100 | " |
| 5. Vacant | Writer | GS-11 | 100 | " |
| 6. Hostler, Virginia | Equal Employment Manager | GS-9 | 100 | " |
| 7. Tonsich, Frances | Secretary | GS-8 | 100 | " |
| 8. LaRoche, Nancy | Computer Assistant | GS-7 | 100 | " |
| 9. Engstrand, Barbara R. | Prog. Support Specialist | GS-11 | 100 | 9WGN40L0 |
| 10. Watkins, Barbara A. | Procurement Agent | GS-6 | 100 | " |
| 11. Breda, Veronica | Travel Clerk | GS-6 | 100 | " |
| 12. Whyte, Ronald H. | Cash & Attendance Clerk | GS-4 | 100 | " |
| 13. Manaligod, Esperanza | Clerk Typist | GS-4 | 100 | " |
| 14. Holder, P. Gail | Clerk Typist | GS-4 | 100 | " |
| 15. Wright, Charles | Engineering Technician | GS-11 | 100 | 9WGN40M0 |
| 16. Marrow, Merle | Maintenance Man | WG-10 | 100 | " |

FORM 1

# NOAA FISHERIES
## CURRENT YEAR OPERATING PLAN

| DATE | October 1988 | |
|---|---|---|
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| SWR | 051 | 1 OF 3 |

RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr    TITLE -> Scientific Services

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 8L1C1ALL | 8L1C1AYO | 8L1C1ALT | 8L1C1ATT | |
| DIRECT LABOR | 42.2 | 96.7 | 47.4 | | 186.3 |
| PERS. BENEFITS | 6.3 | 14.5 | 7.1 | | 27.9 |
| TRAVEL | 1.0 | 1.0 | .8 | | 2.8 |
| TRANSPORTATION | | | | | |
| RENT,COMM.,UTIL. | 3.0 | | | 28.5 | 31.5 |
| PRINT/REPROD. | 1.3 | 1.3 | | | 2.6 |
| CONTRACTS | .9 | 1.5 | | | 2.4 |
| SUPPLIES/MATERIAL | 30.4 | 2.0 | .7 | | 33.1 |
| EQUIPMENT | | 2.5 | | | 2.5 |
| GRANTS | | | | | |
| TOTALS -> | 85.1 | 119.5 | 56.0 | 28.5 | 289.1 |
| FTE (FTP) | 2.0 | 3.0 | 2.0 | 0.0 | 7.0 |
| FTE (OTFTP) | | | | | |

| VESSELS # SEA DAYS ALLOC. | |
|---|---|
| | |
| NOAA | CHARTERS |
| | |
| # FREE DAYS | |
| | |

CROSS REFERENCES

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Scientific Services | La Jolla,CA | 7.0 | 289.1 | Carr | Info. Analysis & Dissemination |

A. PROBLEM STATEMENT/OBJECTIVE: Scientific Services include library, editorial and illustrative services designed to meet the unique requirements of a large research facility. Activities are closely integrated with the research of the SWC.

B. METHODOLOGY/APPROACH: To provide professional level expertise to SWC scientists in the design, literature search and publication of research. A library specializing in marine fisheries is maintained on site. Scientific editorial and typing services are provided to the research staff. Capabilities are maintained in drafting, design, photography and desk-top publishing.

C. PRODUCT/SERVICES: Library, illustrative and editorial.

D. CLIENTS: Research staff of SWC and SWR office staff.

E. CONTRACTS: None

FORM 3

# NOAA FISHERIES
## CURRENT YEAR OPERATING PLAN

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| 1. Vacant | Tech. Writer-Editor | GS 9/01 | 100 | 8L1C1ALT |
| 2. Prescott, Lorraine | Editorial Assistant | GS 7/10 | 100 | " |
| 3. Losey, Debra | Librarian | GS 9/04 | 100 | 8L1C1ALL |
| 4. Stephan, Betty | Library Technician | GS 5/04 | 100 | " |
| 5. Raymond, Kenneth | Scientific Illustrator | GS 12/08 | 100 | 8L1C1AYO |
| 6. Allen, Roy | Scientific Illustrator | GS 9/06 | 100 | " |
| 7. Orr, Henry | Scientific Illustrator | GS 9/06 | 100 | " |

FORM 1

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

| DATE | October 1988 | |
|---|---|---|
| FMC | REF. NO. | PAGE |
| SWR | 052 | 1 OF 4 |

RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr    TITLE -> Information Technology Services (ITS)

HQ CONTACT(S) ->

| TASK NAMES -> | ITS LaJolla | | | | V |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 8L1C1AGO | | | | |
| DIRECT LABOR | 174.0 | | | | 174.0 |
| PERS. BENEFITS | 26.1 | | | | 26.1 |
| TRAVEL | 4.5 | | | | 4.5 |
| TRANSPORTATION | .2 | | | | .2 |
| RENT,COMM.,UTIL. | | | | | |
| PRINT/REPROD. | | | | | |
| CONTRACTS | 21.8 | | | | 21.8 |
| SUPPLIES/MATERIAL | 16.2 | | | | 16.2 |
| EQUIPMENT | 19.5 | | | | 19.5 |
| GRANTS | | | | | |
| TOTALS -> | 265.3 | | | | 265.3 |
| FTE (FTP) | 5 | | | | 5 |
| FTE (OTFTP) | 1 | | | | 1 |

| VESSELS # SEA DAYS ALLOC. | |
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| NOAA | CHARTERS |
| | |
| # FREE DAYS | |
| | |

CROSS REFERENCES

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| ITS | La Jolla,CA | 6 | 265 | Dorothy Roll | Info. Analysis & Dissemination |

A. PROBLEM STATEMENT/OBJECTIVE:

Information Technology Services (ITS) provides the computer technology support services which enable the research and management staff to efficiently and effectively meet the Center's mission in the management of the living marine resources.

B. METHODOLOGY/APPROACH:

To fulfil the charter of ITS, the staff stays abreast of the fast-paced changing technology in the computer hardware, software, and telecommunication fields by reading the monthly and weekly computer related magazines/newsweeks, by evaluating equipment/software proposed for purchase, and by attending training clases, seminars, and trade shows.

C. PRODUCT/SERVICES:

ITS serves 1) as the technical advisor for the Director's Office in the development of long range and short range ADP plans and in the recommendations for the transition from obsolete to next generation computer and telecommunication systems and 2) as the service unit for the La Jolla's staff by developing and implementing management systems, maintaining administrative systems, providing hardware/software consulting services, and conducting/providing user training programs.

D. CLIENTS:

The users of the services are the management, scientific, technical, and administrative personnel at the La Jolla Laboratory. ITS interacts with the Southwest Regional Office and the other laboratories of the Southwest Fisheries Center. ITS provides the liaison with NOAA Fisheries Headquarters and other Fisheries Centers.

E. CONTRACTS:

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NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | | % TIME | TASK # |
|---|---|---|---|---|---|
| Roll, Dorothy D. | Supv. Computer Systems Analyst | GM-334-13 | FTP | 100% | 8L1C1AGO |
| Ralston, Frank M. | Computer Systems Analyst | GS-334-11-6 | FTP | 100% | 8L1C1AGO |
| Jacobson, Susan | Computer Programmer Analyst | GS-334-11-5 | FTP | 100% | 8L1C1AGO |
| Bistodeau, Robert S. | Computer Programmer Analyst | GS-334-11-2 | FTP | 100% | 8L1C1AGO |
| Electronic Tech (Vacant) | Electronics Technician | GS-856-9-1 | FTP | 100% | 8L1C1AGO |
| Vice-Payne | Computer Programmer | GS-334-5-1 | FTT | 100% | 8L1C1AGO |

FORM 4

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

| FMC | REF. NO. | PAGE |
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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L1C1AGO | 1 | E | EXPANDED LAN SERVICE: Installation of the 2nd network server | | M | | | | | | |
| | 2 | E | Upgrade of operating system to support MacIntosh and IBM PC's | | | M | | | | | |
| | 3 | E | Addition of 10-20 new LAN users in consultation with Divisions and Administrative Services | | | | S | | | | |
| | 4 | E | ADMINISTRATIVE SYSTEMS: Conversion of independent systems from CPM to DOS | | J | | | | | | |
| | 5 | E | Complete preliminary plan for an integrated Administrative System | | | | S | | | | |
| | 6 | E | SHIPBOARD DATA SYSTEM: Complete evaluation of existing Continuous Data Collection System | | M | | | | | | |
| | 7 | E | Complete recommendation report for future system | | | | S | | | | |
| | 8 | E | TRAINING PROGRAMS: Document training facilities and develop curriculum | D | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

FORM 1

# NOAA FISHERIES
# CURRENT YEAR OPERATING PLAN

| DATE | | 11 OCT. 1988 |
|---|---|---|
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RESOURCE SUMMARY

APPROVAL SIGNATURE ->

TITLE -> Fishery Information Network

HQ CONTACT(S) ->

| TASK NAMES -> | WPACFIN | PACFIN | | | ∨ |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 8L1C1AUW | 8L1C1AUP | | | |
| DIRECT LABOR | 71.8 | 37.6 | | | 109.4 |
| PERS. BENEFITS | 8.8 | 5.6 | | | 14.4 |
| TRAVEL | 4.0 | 0.5 | | | 4.5 |
| TRANSPORTATION | 0 | | | | 0 |
| RENT,COMM.,UTIL. | 1.5 | | | | 1.5 |
| PRINT/REPROD. | 1.0 | | | | 1.0 |
| CONTRACTS | 8.4 | 35.0 | | | 43.4 |
| SUPPLIES/MATERIAL | 2.4 | 0.2 | | | 2.6 |
| EQUIPMENT | 2.1 | | | | 2.1 |
| GRANTS | 0 | | | | 0 |
| TOTALS -> | 100.0 | 78.9 | | | 178.9 |
| FTE (FTP) | 1.0 | 1.0 | | | 2.0 |
| FTE (OTFTP) | 1.0 | | | | 1.0 |

| VESSELS # SEA DAYS ALLOC. | |
|---|---|
| N/A | |
| NOAA | CHARTERS |
| | |
| # FREE DAYS | |
| | |

CROSS REFERENCES

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

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| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Fishery Information Network | La Jolla,CA | 3 | 178.9 | Carr | Info. Anal. and Dissemination |

A. PROBLEM STATEMENT/OBJECTIVE: To provide timely and accurate fisheries data and information required for planning and management of Pacific Ocean fisheries to states, councils, territories, and common wealth agencies.

B. METHODOLOGY/APPROACH: Fishery data are collected primarily by state agencies and then accumulated, compiled and maintained in a regional data base system. FIN provides data summaries and answers data requests from all qualified users.

C. PRODUCT/SERVICES: The FIN provides resources and technical assistance to state, territorial, and commonwealth fisheries agencies as a cooperative effort to establish and maintain regional data networks to meet informational requirement of the MFCMA.

D. CLIENTS: Users of FIN's data banks include state and federal government agencies, university researchers, consulting firms and industry.

E. CONTRACTS: One contract with the Pacific Marine Fisheries Commission (PMFC) for $35K as the SWFC share in support of the west coast fisheries data base.

FORM 3

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| FTP: | | | | |
| 1. HAMM, DAVID C. | COMPUTER SYSTEMS ANALYST | GS/12/07 | 100 | 8L1C1AUW |
| 2. HORNOF, GERALD F. | COMPUTER SPECIALIST | GS/12/05 | 100 | 8L1C1AUP |
| TEMPORARIES: | | | | |
| 1. QUACH, MICHAEL M. C. | COMPUTER PROGRAMMER | GS/5/01 | 100 | 8L1C1AUW |

FORM 4

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L1C1AUW | 1 | A | SUPPORT WPACFIN FISHERIES DATA COORDINATING COMMITTEE. | X | - | - | - | - | - | - | - |
| | 2 | A | MAINTAIN AND UPGRADE DATA COLLECTING AND PROCESSING SYSTEMS IN THE WESTERN PACIFIC. | X | - | - | - | - | - | - | - |
| | 3 | A | LIAISON WITH INDUSTRY AND OTHER PACIFIC ISLAND GOVERNMENTS. | X | - | - | - | - | - | - | - |
| | 4 | A | SUPPORT ACCESS TO CENTRAL WPACFIN DATA BASES. | X | - | - | - | - | - | - | - |
| | 5 | A | COLLECT, CENTRALIZE, & MAINTAIN DOMESTIC FISHERIES DATA FROM GUAM, AMERICAN SAMOA, & COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS. | X | - | - | - | - | - | - | - |
| | 6 | A | PROVIDE DATA AND SUMMARY REPORTS NEEDED FOR PLANNING AND MANAGEMENT. | X | - | - | - | - | - | - | - |
| | 7 | A | PROVIDE DATA REQUEST SUMMARY REPORTS ON AN AS NEEDED BASIS. | X | - | - | - | - | - | - | - |
| | 8 | M | WITH THE FDCC/TS PRODUCE AND DISTRIBUTE A VOLUME OF THE SERIES "FISHERY STATISTICS OF THE WESTERN PACIFIC" | | | A | | | A | | A |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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FORM 1

# NOAA FISHERIES
# CURRENT YEAR OPERATING PLAN

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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr

TITLE -> Senior Scientist Unit

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | V |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1<br>8L1C5VP1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| DIRECT LABOR | 88.8 | | | | 88.8 |
| PERS. BENEFITS | 13.3 | | | | 13.3 |
| TRAVEL | 4.5 | | | | 4.5 |
| TRANSPORTATION | 0.5 | | | | 0.5 |
| RENT,COMM.,UTIL. | 2.0 | | | | 2.0 |
| PRINT/REPROD. | 2.0 | | | | 2.0 |
| CONTRACTS | 2.0 | | | | 2.0 |
| SUPPLIES/MATERIAL | 5.0 | | | | 5.0 |
| EQUIPMENT | 1.9 | | | | 1.9 |
| GRANTS | 0 | | | | 0 |
| TOTALS -> | 120.0 | | | | 120.0 |
| FTE (FTP) | 2.0 | | | | 2.0 |
| FTE (OTFTP) | 0.6 | | | | 0.6 |

| VESSELS<br># SEA DAYS ALLOC. | |
|---|---|
| | |
| NOAA | CHARTERS |
| | |
| # FREE DAYS | |
| | |

CROSS REFERENCES

SWR 510, 520, 530, 540

FORM 2

NOAA FISHERIES
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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Senior Scientist Unit | SWC-La Jolla | 2.67 | 120.0 | W.F. Perrin | Info. Analysis Dissemination |

A. PROBLEM STATEMENT/OBJECTIVE: Support the conservation and management at domestic and international levels of marine mammals and endangered species and their critical habitats while evaluating commercial and recreational utilization as permitted by law (Ecosystem objective No.4 of West Coast and Pacific Insular Ecosytem Group).

B. METHODOLOGY/APPROACH:
1. Provide a scientific basis for delineation of stocks of dolphins to be managed in conjunction with the tuna fishery in the ETP.
2. Provide expertise, advise and information on population biology for international conservation and management of cetaceans.

C. PRODUCT/SERVICES:
1. Technical contributions to the literature on population biology of cetaceans in ETP and elsewhere.
2. Advice and planning documents.
3. Organization and operation of national and international workshops, symposia and advisory bodies.

D. CLIENTS:
1. SWC/ SWR
2. IWC
3. IUCN

E. CONTRACTS:
1. Translations from Russian (Private; $10K)
2. Work/study student (UCSD; $1.0K)

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NOAA FISHERIES

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| Perrin, William F. | Sup. Fishery Biologist | GM/15 | 100 | 8L1A5VP1 |
| Kashiwada, Jerry V. | Biological Technician | GS/5/1 | 100 | 8L1A5VP1 |
| Vacant | Biological Technician | GS/5/1 | 100 | 8L1A5VP1 |

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NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | 2 | 3 | 4 | 90 1 | 2 | 91 1 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1A5VP1 | 1 | A | Joint research with Soviet scientists on use of non-metrical methods for defining dolphin stocks. | X | X | X | X | X | X | | |
| 8L1A5VP1 | | E | Exchange visits with Soviets | O | J | | | J | | | |
| 8L1A5VP1 | | M | Complete joint paper with Soviets on non-metrical methods | | | | | | J | | |
| 8L1A5VP1 | 2 | E | Begin analysis of spinner coloration and fin data | N | | | | | | | |
| 8L1A5VP1 | | M | Complete draft of paper on spinner morphology | | | | | O | | | |
| 8L1A5VP1 | 3 | A | Prepare for IWC Meetings | X | X | X | X | X | X | X | X |
| 8L1A5VP1 | | E | IWC Meetings | | | M | | | M | | M |
| 8L1A5VP1 | 4 | A | Organize symposium on cetacean systematics | X | X | X | X | | | | |
| 8L1A5VP1 | | E | Symposium on cetacean systematics | | | | A | | | | |
| 8L1A5VP1 | 5 | E | Complete analysis of ETP dolphin skull data | | | | S | | | | |
| 8L1A5VP1 | 6 | M | Publication of river dolphin proceedings volume | | F | | | | | | |

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

| DATE | October 1988 | |
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John T. Carr     TITLE -> UNLV Limnological Research

HQ CONTACT(S) ->

| TASK NAMES -> | UNLV | | | | V |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 8L1A1A00 | | | | |
| DIRECT LABOR | | | | | |
| PERS. BENEFITS | | | | | |
| TRAVEL | | | | | |
| TRANSPORTATION | | | | | |
| RENT, COMM., UTIL. | | | | | |
| PRINT/REPROD. | | | | | |
| CONTRACTS | | | | | |
| SUPPLIES/MATERIAL | | | | | |
| EQUIPMENT | | | | | |
| GRANTS | $400K | | | | $400K |
| TOTALS -> | $400K | | | | $400K |
| FTE (FTP) | 0 | | | | 0 |
| FTE (OTFTP) | 0 | | | | 0 |

| VESSELS<br># SEA DAYS ALLOC. | |
|---|---|
| N.A. | |
| NOAA | CHARTERS |
| | |
| # FREE DAYS | |
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CROSS REFERENCES

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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| UNLV Limnological Research | | | 400 | Carr | Resource Information |

A. PROBLEM STATEMENT/OBJECTIVE: Fishing is one of the most important recreational activities of the Lake Mead National Recreation Area with an estimated annual economic value in excess of $70 million. Major decreases, however, have occurred in the fisheries of Lake Mead over the past two decades. The decline in the numbers of threadfin shad, the principal forage species for largemouth and striped bass, appears to be a major contributor to the fisheries problems. Studies indicate that the shad population decline is related to a decrease in lake fertility that occurred after dams were built upstream in the 1960's. As the reservoirs upstream slowly filled, they cut off the phosphorus-rich sediments that historically fertilized the upper basin of Lake Mead. As the phosphorus levels declined, so did the algae, zooplankton and threadfin shad--vital components of the lake's food chain.

B. METHODOLOGY/APPROACH: Large-scale fertilization has been successfully practiced in some North American lakes to enhance fish stocks. The Lake Mead Fertilization Project is a three-year experiment designed to investigate the management potential of fertilization for improving the sport fisheries of Lake Mead. The experiment involves an annual application of up to 25,000 gallons of ammonium polyphosphate to 20,000 acres of the Overton Arm of Lake Mead.

C. PRODUCT/SERVICES: Recommendations on the biological and economical feasibility of increasing fisheries productivity by means of artificial fertilization.

D. CLIENTS: Recreational fishermen

E. CONTRACTS/GRANTS: University of Nevada, Las Vegas $400K - Lake Mead fertilization experiment for improved fisheries.

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NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| | 1 | A | Issue grant to UNLV for limnological research on Lake Mead | | | J | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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FORM 1

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

| DATE | October 1988 | |
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr    TITLE -> Tiburon Move (Bodega Bay)

HQ CONTACT(S) ->

| TASK NAMES -> | Tiburon Move '88 | | | | V |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 8L1A1ATM | | | | |
| DIRECT LABOR | | | | | |
| PERS. BENEFITS | | | | | |
| TRAVEL | | | | | |
| TRANSPORTATION | | | | | |
| RENT,COMM.,UTIL. | | | | | |
| PRINT/REPROD. | | | | | |
| CONTRACTS | 94.0 | | | | 94.0 |
| SUPPLIES/MATERIAL | | | | | |
| EQUIPMENT | | | | | |
| GRANTS | | | | | |
| TOTALS -> | 94.0 | | | | 94.0 |
| FTE (FTP) | | | | | |
| FTE (OTFTP) | | | | | |

| VESSELS # SEA DAYS ALLOC. | |
|---|---|
| | |
| NOAA | CHARTERS |
| | |
| # FREE DAYS | |
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CROSS REFERENCES

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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Tiburon Move | La Jolla, CA | | 94.0 | Remington | Tiburon Move (Bodega Bay) |

A. PROBLEM STATEMENT/OBJECTIVE:

Planning for moving from Tiburon to a new lab to be constructed at Bodega Bay, CA

B. METHODOLOGY/APPROACH:

Contract for feasibility and planning for construction

C. PRODUCT/SERVICES:

Reports/plans/drawings

D. CLIENTS:

Self

E. CONTRACTS:

Architectural and engineering specifications and drawings

FORM 4

NOAA FISHERIES

CURRENT YEAR OPERATING PLAN

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MILESTONE ARRAY

| | | | | FY 89 | | | | 90 | | 91 | |
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| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| Task #1 | 1 | A | Planning for construction of a new laboratory at Bodega Bay, CA | O | | | S | | | | |
| Task #1 | 2 | E | Contract for new construction | | | | | | | E | |
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FORM 1

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

| DATE | October 5, 1988 | |
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> [signature]  TITLE -> Fisheries Management and Analysis

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | V |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 8L2A6CFM | | | | |
| DIRECT LABOR | 261.8 | | | | 261.8 |
| PERS. BENEFITS | 50.6 | | | | 50.6 |
| TRAVEL | 21.9 | | | | 21.9 |
| TRANSPORTATION | 4.1 | | | | 4.1 |
| RENT,COMM.,UTIL. | 42.0 | | | | 42.0 |
| PRINT/REPROD. | 1.1 | | | | 1.1 |
| CONTRACTS | 111.8 | | | | 111.8 |
| SUPPLIES/MATERIAL | 2.1 | | | | 2.1 |
| EQUIPMENT | 3.3 | | | | 3.3 |
| GRANTS | | | | | |
| TOTALS -> | 498.7 | | | | 498.7 |
| FTE (FTP) | 8.8 | | | | 8.8 |
| FTE (OTFTP) | | | | | |

| VESSELS # SEA DAYS ALLOC. | |
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| NOAA | CHARTERS |
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| # FREE DAYS | |
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NOAA FISHERIES

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| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Fisheries Mgmt. & Analysis | Terminal Is. | 8.8 | 498.7 | S. Fougner | Fisheries Management Program |

A. PROBLEM STATEMENT/OBJECTIVE: This program carries out Regional responsibilities under the Magnuson Fishery Conservation and Management Act (MFCMA) and other laws for conservation and management of fishery resources of Federal concern, including support to the Pacific and Western Pacific Fishery Management Councils in development and implementation of fishery management plans.

B. METHODOLOGY/APPROACH: This program includes fishery monitoring, economic analysis, and information network planning and implementation to complete analytic and documentation requirements of the MFCMA, Regulatory Flexibility Act, Paperwork Reduction Act, E.O. 12291, and the National Environmental Policy Act. Staff support is provided to Regional Fishery Management Councils in coordination with other NMFS units, NOAA General Counsel, NOAA Enforcement, and State agencies to ensure that management programs are comprehensive and effectively monitored through data collection and research activities. Grants-in-aid are awarded to State and Territory agencies to support data collection and anaylsis on fisheries of mutual interest. Staff assist in identifying high priority research needed for FMP evaluation and improvements in the future. This program also provides support in development of NOAA Fisheries policies under the MFCMA, and provides assistance to other Regional units in rulemaking proceedings when necessary.

C. PRODUCT/SERVICES: Main products are Decision Memoranda and associated documents (Regulatory Analyses, Environmental Impact Statements, Regulations) to support approval and implementation FMPs, annual reports and data on FMP fisheries, Economic Status Reports on certain regional fisheries, MFCMA policy analyses, and fishery catch and effort reports. Services include participation on fishery management plan teams, contract monitor services, and administrative support to Councils.

D. CLIENTS: Principal clients are the Pacific and Western Pacific Fishery Management Councils, State and Territory agencies, commercial and recreational fishing interests, and other organizations.

E. CONTRACTS: Contracts are let to assist State and Territory agencies where necessary to carry out data collection and analysis tasks needed to carry out FMPs and to complete special research and analysis projects under the fishery information network to generate information needed for management decisions.

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| McInnis, Rodney R. | Fishery Program Administr. | GM-00480-14 | 25 | 8L2A6CFM |
| Fougner, Svein | Fishery Program Administr. | GM-00401-13 | 100 | |
| Silverthorne, G. Wesley | Industry Economist | GM-00110-13 | 100 | |
| Morgan, James J. | Fishery Biologist Mgmt. | GS-00482-12 | 100 | |
| Milone, Peter A. | Resource Management Spec. | GS-00401-12 | 100 | |
| Korson, Charles S. | Industry Economist | GS-00110-11 | 100 | |
| Vacant | Resource Management Spec. | GS-00401-07 | 100 | |
| Hiu, Gail K. | Secretary Typing | GS-00318-06 | 75 | |
| Swam, Katherine B. | Clerk Typing | GS-00322-03 | 80 | |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | FY 89 2 | FY 89 3 | FY 89 4 | 90 1 | 90 2 | 91 1 | 91 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L2A6CFM | 1 | M | Publish regulations to implement the annual groundfish harvest strategy of the Pacific Council (cooperate with F/NWR and F/EN) | | J | | | J | | J | |
| | 2 | E | Complete evaluation of SWR compliance with data confidentiality directives | | J | | | | | | |
| | 3 | E | In cooperation with SWC and CFG, evaluate results of Port Sampling project and recommend follow-up action | | F | | | | | | |
| | 4 | M | Complete SWR inputs to annual report under Crustaceans FMP | | F | | | | | | |
| | 5 | E | Complete evaluation of hardware and software options and operating procedures (incl. cost recovery) for Research Data Base | | M | | | | | | |
| | 6 | M | Complete review of PFMC annual salmon report and recommend SWR position on management measures for coming season | | | M | | | | | |
| | 7 | E | Complete annual review of the CalFIN program with the SWC | | | M | | | | | |
| | 8 | E | In cooperation with WPFMC, establish process and schedule for amending FMPs to incorporate conservation standard | | | M | | | | | |
| | 9 | E | Allocate economic research reserve fund with SWC | | | M | | | | | |
| | 10 | M | Complete SWR inputs to annual report under Bottomfish FMP | | | J | | | | | |
| | 11 | M | Complete SWR inputs to annual report under Pelagics FMP | | | J | | | | | |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | FY 89 2 | FY 89 3 | FY 89 4 | 90 1 | 90 2 | 91 1 | 91 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L2A6CFM | 12 | E | Conduct briefing on the status of FIN program | | | | J | | | | |
| | 13 | M | Distribute annual report on West Coast Groundfish Fishery | | | | J | | | | |
| | 14 | M | Present annual anchovy fishery OY and quota determinations to PFMC | | | | J | | | | |
| | 15 | M | With SWC and CFG, distribute annual report on coastal pelagic fisheries for Pacific Council consideration | | | | J | | | | |
| | 16 | E | Distribute annual report on Dungeness Crab fishery | | | | A | | | | |
| | 17 | E | Distribute annual report on the pink shrimp fishery | | | | A | | | | |
| | 18 | E | Complete review of the WPFMC budget proposal for the following year and submit recommendations to NMFS headquarters | | | | A | | A | | A |
| | 19 | E | Complete annual update of PacFIN Research Data Base | | | | S | | | | |
| | 20 | E | In cooperation with SWC, GCSW, WPFMC, and HDAR, establish criteria and standards for limited access program evaluation | | | | S | | | | |
| | 21 | E | In cooperation with SWC, WPFMC, and HDAR, evaluate initial results of non-commercial fisheries survey and recommend follow-up | | | | S | | | | |
| | 22 | A | Coordinate Terminal Island staff reviews and associated action on WPFMC FMP changes in conformance with regionalization of FMPs | - | - | - | - | - | - | - | - |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | 2 | 3 | 4 | 90 1 | 2 | 91 1 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L2A6CFM | 23 | A | Process grant applications and monitor grants under IFA and P.L. 89-304 to ensure achievement of intended results | - | - | - | - | - | - | - | - |
| | 24 | M | Complete first year evaluation of NWHI bottomfish limited access program | | | | | M | | | |
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> [signature] TITLE -> Tuna/Porpoise Management

HQ CONTACT(S) ->

| TASK NAMES -> | Staff | Observers | | | V |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 8L2B2TMP | 8L2B2TBT | | | |
| DIRECT LABOR | 214.9 | 563.3 | | | 778.2 |
| PERS. BENEFITS | 32.2 | 41.3 | | | 73.5 |
| TRAVEL | 3.7 | 46.9 | | | 50.6 |
| TRANSPORTATION | 2.3 | 9.2 | | | 11.5 |
| RENT,COMM.,UTIL. | 43.4 | | | | 43.4 |
| PRINT/REPROD. | 1.2 | | | | 1.2 |
| CONTRACTS | 5.6 | 111.4 | | | 117.0 |
| SUPPLIES/MATERIAL | 2.2 | | | | 2.2 |
| EQUIPMENT | | | | | |
| GRANTS | | | | | |
| TOTALS -> | 305.5 | 772.1 | | | 1077.6 |
| FTE (FTP) | 7.25 | 22.55 | | | 29.8 |
| FTE (OTFTP) | | | | | |

| VESSELS # SEA DAYS ALLOC. | |
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| NOAA | CHARTERS |
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| # FREE DAYS | |
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| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Tuna/Porpoise Management | San Diego | 29.8 | $1077.6 | N. Mendes | Protected Species |

A. PROBLEM STATEMENT/OBJECTIVE: The Tuna/Porpoise Management Program fulfills requirements of the Marine Mammal Protection Act concerning porpoise taken in tuna purse seining operations.

B. METHODOLOGY/APPROACH: Biological Technicians collect scientific data while aboard U.S. tuna purse seine vessels in the eastern tropical Pacific ocean. These data are used to estimate the number of porpoise killed compared to the stock quotas now in the MMPA, to assess compliance with porpoise safety gear requirements and rescue procedures, and to furnish researchers with information and biological specimens for life history and population studies. An experienced staff at San Diego recruits and trains biologists to serve as observers. The staff also conducts workshops for vessel operators to inform them of the Federal regulations related to porpoise protection and assists vessel owners in meeting the porpoise safety gear requirements by performing inspections of vessels and gear at the dock. NMFS funds and expertise are provided to the Inter-American Tropical Tuna Commission's tuna/dolphin investigations to aid in achieving an international approach to porpoise protection.

C. PRODUCT/SERVICES: Products from this program include biweekly reports on the porpoise mortality in the U.S. fleet, booklets and other printed and filmed information on porpoise safety techniques for tuna purse seining, scientific observations and biological specimens collected on tuna vessels. Services include training for vessel operators in the requirements of Federal regulations regarding marine mammals and techniques for reducing porpoise mortalities, advice to vessel operators regarding required porpoise safety gear, and information to the interested public on porpoise and the tuna fishery.

D. CLIENTS: Tuna vessel owners and operators, environmental and animal welfare interest groups, and marine mammal researchers use the products and services of this program.

E. CONTRACTS: A contract is entered into with each vessel that carries an observer to provide reimbursement for the insurance, living and other expenses related to that observer.

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| McInnis, Rodney R. | Fishery Program Administr. | GM-00480-14 | 25 | 8L2B2TMP |
| Mendes, Norman A. | Fishery Biol. Mgmt. Supv. | GM-00482-13 | 100 | " |
| Norberg, J. Brent | Fishery Biol. Mgmt. Supv. | GS-00482-12 | 100 | " |
| Young, John A. | Fishery Biol. Mgmt. | GS-00482-11 | 100 | " |
| Meyer, Ben S. | Fishery Biol. Mgmt. Supv. | GS-00482-09 | 100 | " |
| La Civita, Peter E. | Fishery Biol. Mgmt. | GS-00482-07 | 100 | " |
| O'Brien, Theresa C. | Procurement & Operatn Asst. | GS-00303-06 | 100 | " |
| Begley, Frances R. | Secretary Typing | GS-00318-05 | 100 | " |
| Observers | Biological Technicians | GS-00404-05 | 100 | 8L2B2TBT |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | FY 89 2 | FY 89 3 | FY 89 4 | 90 1 | 90 2 | 91 1 | 91 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L2B2TMP 8L2B2TBT | 1 | M | Announce improvements to the observer sampling plan, if any, based on SWC analysis of the 1987 100 percent observer coverage data. | N | | | | | | | |
| | 2 | M | Complete an evaluation of reported vs. unreported porpoise mortalities with the SWC cooperation. | D | | | | | | | |
| | 3 | M | Complete assessment of the lighting system in reducing "sundown" set mortality. | D | | | | | | | |
| | 4 | M | Report the total porpoise mortality in the eastern tropical Pacific U.S. tuna fishery during the previous calendar year. | | J | | | J | | J | |
| | 5 | A | Inspect porpoise safety gear and advise managing owners of needed repairs and replacement. | - | - | - | - | - | - | - | - |
| | 6 | A | Recruit, train, and place porpoise observers aboard certificated vessels to record porpoise kill related to tuna fishing. | - | - | - | - | - | - | - | - |
| | 7 | A | Estimate and report porpoise mortality biweekly to ensure the stock and aggregate quotas are not exceeded during a calendar year. | - | - | - | - | - | - | - | - |
| | 8 | | Issue vessel and operator certificates of inclusion to tuna purse seiners. | - | - | - | - | - | - | - | - |
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NOAA FISHERIES
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> [signature] TITLE -> Habitat Conservation

HQ CONTACT(S) ->

| TASK NAMES -> | So. Cal | No. Cal | Wes. Pac. | | \/ |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 8L2C14HC | 8L2C14NC | 8L2C14WP | | |
| DIRECT LABOR | 78.2 | 133.5 | 42.3 | | 254.0 |
| PERS. BENEFITS | 11.6 | 20.2 | 15.4 | | 47.2 |
| TRAVEL | 2.7 | 4.7 | 3.6 | | 11.0 |
| TRANSPORTATION | 3.7 | 7.4 | - - | | 11.1 |
| RENT,COMM.,UTIL. | 14.0 | 19.5 | - - | | 33.5 |
| PRINT/REPROD. | - - | - - | - - | | - - |
| CONTRACTS | 0.7 | 0.6 | 0.2 | | 1.5 |
| SUPPLIES/MATERIAL | 0.2 | 0.7 | 0.2 | | 1.1 |
| EQUIPMENT | - - | - - | - - | | - - |
| GRANTS | | | | | |
| TOTALS -> | 111.1 | 186.6 | 61.7 | | 359.4 |
| FTE (FTP) | 2.25 | 4.0 | 1.0 | | 7.2 |
| FTE (OTFTP) | | 0.8 | | | 0.8 |

| VESSELS # SEA DAYS ALLOC. | |
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| NOAA | CHARTERS |
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| # FREE DAYS | |
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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| HABITAT CONSERVATION | Terminal Is. | 8.0 | 359.4 | J. Slawson | Habitat Conservation |

A. PROBLEM STATEMENT/OBJECTIVE: The SWR Habitat Conservation program recommends measures to minimize the negative impacts of Federally conducted, funded, or permitted activities on marine, estuarine, and anadromous fish stocks of commercial and/or recreational importance.

B. METHODOLOGY/APPROACH: The program staff actively coordinates with responsible State, Federal, and western Pacific Island permitting agencies, applicants, and Fisheries Management Councils as as appropriate, on water policy issues, OCS leasing and development, port master planning, sanctuaries, ocean dumping, and COE permits (Sect. 10/404). The staff is responsible for seeing that these projects do not reduce the value of habitat for important marine, estuarine, and anadromous species in California. The main approach to these responsibilities is 1) to inform potential permit applicants of the SWR policy to achieve no net loss of habitat value and 2) to work with applicants during the preapplication planning stages to include project design conditions which will minimize the impact our habitat and mitigation measures for unavoidable habitat loss. This involvement in the design phase saves time and money for the applicant.

C. PRODUCTS/SERVICES: This program maintains the productivity of important fishery resources by ensuring that the impacts of man's activities on the habitat for those species is considered and, where negative impacts are unavoidable, recommending methods of compensating for the loss of habitat value. The program staff works closely with development entities to ensure that project delays and costs are kept to a minimum while resource benefits are maximized.

D. CLIENTS: Private, local, State, and Federal interests involved in developing and maintaining coastal, anadromous, and estuarine areas, or in issuing permits for development.

E. CONTRACTS:
1) Sacramento River chinook salmon habitat evaluation model - - Biosystems, Inc.
2) Squawfish predation problem evaluation - - Fish and Wildlife Service
3) Egg temperature tolerance, winter-run chinook - - Fish and Wildlife Service

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| McInnis, Rodney R. | Fishery Program Administr. | GM-00480-14 | 25 | 8L2C14HC |
| Slawson, James J. | Fishery Biol. Gen. Supv. | GM-00482-13 | 100 | 8L2C14HC |
| Hoffman, Robert S. | Fishery Biologist Gen. | GS-00482-12 | 100 | 8L2C14HC |
| Naughton, John J. | Fishery Biologist Mgmt. | GS-00482-12 | 100 | 8L2C14WP |
| Bybee, James R. | Fishery Biologist Gen. | GS-00482-12 | 100 | 8L2C14NC |
| Wolcott, Roger S.C. Jr. | Fishery Biologist Gen. | GS-00482-12 | 100 | 8L2C14NC |
| Windham, T. Dianne | Fishery Biologist Mgmt. | GS-00482-09 | 100 | 8L2C14NC |
| Vacant | Fishery Biologist Gen. | GS-00482-07 | 100 | 8L2C14NC |
| Miller, Sandra J. | Secretary | GS-00318-05 | 80 | 8L2C14NC |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | FY 89 2 | FY 89 3 | FY 89 4 | 90 1 | 90 2 | 91 1 | 91 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L2C14WP | 1 | M | Complete a summary report documenting the major results of habitat work in the western Pacific for inclusion in the Annual Coastal/ Estuarine Accomplishments Report. | | M | | | | | | |
| | 2 | M | Complete a report documenting the effectiveness of a series of artificial reefs placed in Maunalua Bay, Oahu, to enhance recruit-ment of juvenile reef fish. | | | | J | | | | |
| | 3 | M | Quantify construction impacts and recovery rates of a climax coral reef ecosystem from a coastal construction project at Keahole Point Kona, Hawaii, and complete a final documenting report. | N | | | | | | | |
| | 4 | E | Develop a succinct issue paper identifying and analyzing potential mitigation alternatives which have been, or could be employed in the Pacific Island area, to satisfy the modified Regional Habitat Protection Policy. | | | A | | | | | |
| | 5 | M | Complete the NMFS portion of the report to recommend especially valuable ecosystems for conservation or protection in the Marshall Islands. | | F | | | | | | |
| | 6 | A | Review and comment on the potential impacts of actions under permit application to the Corps of Engineers, FERC, EPA and others. | - | - | - | - | - | - | - | - |
| | 7 | A | Participate as DOC/NOAA representative to Region IX Regional Response Team for oil and hazardous substance spills in the western Pacific. | - | - | - | - | - | - | - | - |
| | 8 | A | Review and comment on potential impacts of actions under permit application to the Corps of Engineers, FERC, and others. | - | - | - | - | - | - | - | - |
| | 9 | A | Coordinate with the Western Pacific Fisheries Management Council on habitat issues of major significance, which may impact managed species. | - | - | - | - | - | - | - | - |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L2C14NC | 1 | M | Complete and distribute the Anadromous Habitat Accomplishments Report reflecting major results of the Region's anadromous fish habitat work during calendar year 1988. | | M | | | | | | |
| | 2 | M | Publish the results of the eelgrass inventory of San Francisco Bay performed by the Branch in 1987-1988. | | M | | | | | | |
| | 3 | M | Conduct a workshop to familiarize Federal and State resource and regulatory entities in the Sacramento area, with the Region's Bio-physical/economic model. | | J | | | | | | |
| | 4 | E | Develop a research proposal, in cooperation with the Tiburon Lab to document the relative fisheries values of eelgrass habitats vs. non-vegetated areas in San Francisco Bay. | D | | | | | | | |
| | 5 | E | Develop a joint document with the Tiburon Lab identifying long-term research priorities for the San Francisco Bay area. | | | J | | | | | |
| | 6 | M | Develop a succinct issue paper defining the Branch role, now and in the future, concerning non-salmonid anadromous resources in Calif. | | F | | | | | | |
| | 7 | A | Review and comment on the potential impacts of actions under permit application to the Corps of Engineers, FERC and others. | - | - | - | - | - | - | - | - |
| | 8 | A | Analyze and report to the Regional Director the potential impacts of water development and allocation within California, on fisheries habitats of significance. | - | - | - | - | - | - | - | - |
| | 9 | A | Coordinate with the Pacific Fisheries Management Council on habitat issues of major significance, which may impact managed species. | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L2C14HC | 1 | M | Complete and distribute a Coastal/Estuarine Habitat Report reflecting major results of work in calendar year 1988. | | M | | | | | | |
| | 2 | E | Develop a computer reporting system applicable Region-wide to continually track the level at which Regional mitigation recommendations are adopted and implemented through the Federal permitting process. | | | J | | | | | |
| | 3 | M | Complete a report documenting the relative fisheries values of natural vs. transplanted eelgrass habitats in Mission Bay, CA. | | | A | | | | | |
| | 4 | E | Develop and implement a Memorandum of Understanding among NMFS, FWS and CDFG for the establishment and conduct of a long-term eelgrass mapping program in southern California. | | F | | | | | | |
| | 5 | A | Coordinate closely with fellow resource agencies in monitoring the progress of the Port of Long Beach S-K project to document the fisheries values of a California coastal artificial reef. | O | - | - | - | O | | | |
| | 6 | A | Coordinate with GC in assisting NOS in the development and implementation of restoration alternatives for the Montrose Superfund Damage Assessment should it proceed. | - | - | - | - | - | - | - | - |
| | 7 | A | Review and comment on potential impacts of actions under permit application to the Corps of Engineers, FERC, and others. | - | - | - | - | - | - | - | - |
| | 8 | A | Coordinate with the Pacific Fisheries Management Council on habitat issues of major significance, which may impact managed species. | - | - | - | - | - | - | - | - |

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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RESOURCE SUMMARY

APPROVAL SIGNATURE -> [signature] TITLE -> Protected Species Management

HQ CONTACT(S) ->

| TASK NAMES -> | PS CA | PS WP | | | V |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 8L2B3UCA | 8L2B3UWP | | | |
| DIRECT LABOR | 106.8 | 56.2 | | | 163.0 |
| PERS. BENEFITS | 16.0 | 21.1 | | | 37.1 |
| TRAVEL | 3.7 | 4.0 | | | 7.7 |
| TRANSPORTATION | 0.1 | 0.1 | | | 0.2 |
| RENT,COMM.,UTIL. | 22.3 | - - | | | 22.3 |
| PRINT/REPROD. | 2.5 | - - | | | 2.5 |
| CONTRACTS | 67.5 | - - | | | 67.5 |
| SUPPLIES/MATERIAL | 1.1 | - - | | | 1.1 |
| EQUIPMENT | - - | - - | | | 0 |
| GRANTS | | | | | |
| TOTALS -> | 220.0 | 81.4 | | | 301.4 |
| FTE (FTP) | 4.25 | 2.05 | | | 6.3 |
| FTE (OTFTP) | | | | | |

| VESSELS # SEA DAYS ALLOC. | |
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| NOAA | CHARTERS |
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| # FREE DAYS | |
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| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Protected Species | Terminal Is. | 6.3 | 301.4 | J. Lecky | Protected Species |

A. PROBLEM STATEMENT/OBJECTIVE: The protected species program is responsible for monitoring the status of protected species (marine mammals and populations listed as threatened and endangered) and ensuring that human activities are conducted in a manner that will not disadvantage stocks or degrade their habitat.

B. METHODOLOGY/APPROACH: Program staff review and comment on proposed activities which may affect protected species. Recommendations are made to permitting agencies to mitigate adverse effects of authorized activities. Vehicles for interagency coordination are the permit processes of the MMPA and the ESA, the Section 7 consultation process of the ESA, recovery planning pursuant to the ESA, the NEPA process, and the FWCA. Commercial fisheries are monitored to ensure incidental marine mammal mortality remains at levels sustainable by the populations. When necessary regulations are promulgated to mitigate adverse effects of human activities.

C. PRODUCTS/SERVICES: This program provides a service to governmental agencies and the public in determining strategies for conserving populations of protected species and mitigating adverse effects of certain human activities. These strategies are defined in recommendations to permitting agencies, special reports, Biological Opinions, Recovery Plans, and policy papers as necessary. The program also serves the commercial fishing industry by administering the industry exception to the moratorium on the taking of marine mammals. The program also administers marine mammal stranding networks for rehabilitating sick animals and collecting scientific data.

D. CLIENTS: Federal and state agencies are the primary users of information provided by this program. These include MMS, COE, Regional Fishery Management Councils, state resource agnecies, and local governments. Staff is frequently contacted by the public, educational institutions, and commercial fishermen for information on protected species.

E. CONTRACTS: An ongoing cooperative agreement exists with the State of California for the monitoring of certain marine mammal populations and estimating mortality incidental to certain commercial fisheries. Periodic small contracts are let to consultants, universities, or other agencies to provide specific information for management of protected species.

FORM 3

NOAA FISHERIES
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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| McInnis, Rodney R. | Fishery Program Administr. | GM-00480-14 | 25 | 8L2B3UCA |
| Lecky, James J. | Wildlife Biol Mgmt. Supv. | GM-00486-13 | 100 | 8L2B3UCA |
| Nitta, Eugene T. | Fishery Biologist Mgmt. | GS-00482-12 | 100 | 8L2B3UWP |
| Vacant | Wildlife Biologist | GS-00486-09 | 100 | 8L2B3UCA |
| Cordaro, Joseph G. | Fishery Biologist Gen. | GS-00482-05 | 100 | 8L2B3UCA |
| Drinin, Debra L. | Secretary Typing | GS-00318-06 | 100 | 8L2B3UCA |
| Hiu, Gail K. | Secretary Typing | GS-00318-06 | 25 | 8L2B3UWP |
| Matsukawa, Georgia F. | Clerk Typing | GS-00322-04 | 80 | 8L2B3UWP |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | 2 | 3 | 4 | 90 1 | 2 | 91 1 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L2B3UCA | 1 | E | Complete categorization of commercial fisheries per categories established by 1988 amendments to the MMPA. | D | | | | | | | |
| | 2 | M | Complete report on the Effect of gray whale mortality in Southern California set nets on the gray whale population. | | | M | | | | | |
| | 3 | E | Renew cooperative agreement with the CDFG for monitoring the status of selected marine mammal stocks interacting with commercial fisheries and assess effect of incidental mortality. | | | M | | | | | |
| | 4 | E | Submit SWR/SWC contribution to Annual Report to Congress on the Administration of the MMPA. | | | A | | | | | |
| | 5 | E | Consistent with the 1988 MMPA amendments, complete a draft plan for quantifying marine mammal mortality in local fisheries. | | | | A | | | | |
| | 6 | E | Report on the progress of the winter-run chinook salmon restoration program in the Sacramento River. | | | | S | | | | |
| | 7 | M | Complete status reviews for totoaba and Guadalupe fur seals as required by Section 4 of the ESA. | | | | S | | | | |
| | 8 | A | Participate in the development of the humpback whale recovery team. | - | - | - | - | | | | |
| | 9 | A | Consult with federal agencies under Section 7 of the ESA on projects that may affect listed species. | - | - | - | - | - | | | |
| | 10 | A | Coordinate with state and federal agencies to ensure that their actions will not disadvantage marine mammal stocks. | - | - | - | - | - | | | |
| | 11 | A | Review and comment on marine mammal and endangered species permits. | - | - | - | - | - | | | |

FORM 4

NOAA FISHERIES

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | 2 | 3 | 4 | 90 1 | 2 | 91 1 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L2B3UCA | 12 | A | Coordinate the Marine Mammal Stranding Networks and maintain the network data base. | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | |
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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L2B3UWP | 1 | M | Complete draft report on habitat requirements for humpback whales in Hawaii including delineation of important coastal areas throughout the Hawaiian Islands. | N | | | | | | | |
| | 2 | M | Submitt draft final regulations to F/PR for approaching humpback whales in Hawaii. | | | J | | | | | |
| | 3 | M | Approve Sea turtle Recovery Plan. | | | J | | | | | |
| | 4 | M | Complete status reviews for Pacific Sea turtles and Hawaiian monk seals as required by Section 4 of the ESA. | | | | S | | | | |
| | 5 | E | Cooperate with SWC in coastal marine mammal stock assessment. | | | | | | | | |
| | 6 | M | Complete assessment of sea turtle distribution and habitat use in the Mariana archipelago. | | | | | | | X | |
| | 7 | A | Participate in the development of the humpback whale recovery plan | - | - | - | - | - | - | - | - |
| | 8 | A | Consult with federal agencies under Section 7 of the ESA on projects that may affect listed species. | - | - | - | - | - | - | - | - |
| | 9 | A | Continue cooperation with the State of Hawaii to ensure that protection of humpback whale habitat is considered in the development and implementation of the state's ocean recreation plan. | - | - | - | - | - | - | - | - |
| | 10 | A | Coordinate with state and federal agencies to ensure that their actions will not disadvantage marine mammal stocks. | - | - | - | - | - | - | - | - |
| | 11 | A | Review and comment on marine mammal and endangered species permits. | - | - | - | - | - | - | - | - |
| | 12 | A | Coordinate the Marine Mammal Stranding Networks and maintain the network data base. | - | - | - | - | - | - | - | - |

FORM 1

NOAA FISHERIES
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> [signature]

TITLE -> Industry Analysis and Information

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | V |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 8L1B2ATA | | | | |
| DIRECT LABOR | 104.7 | | | | 104.7 |
| PERS. BENEFITS | 15.8 | | | | 15.8 |
| TRAVEL | 11.0 | | | | 11.0 |
| TRANSPORTATION | 0.7 | | | | 0.7 |
| RENT, COMM., UTIL. | 15.0 | | | | 15.0 |
| PRINT/REPROD. | 1.5 | | | | 1.5 |
| CONTRACTS | 13.0 | | | | 13.0 |
| SUPPLIES/MATERIAL | 3.0 | | | | 3.0 |
| EQUIPMENT | 3.0 | | | | 3.0 |
| GRANTS | | | | | |
| TOTALS -> | 167.7 | | | | 167.7 |
| FTE (FTP) | 2.5 | | | | 2.5 |
| FTE (OTFTP) | | | | | |

| VESSELS # SEA DAYS ALLOC. | |
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| NOAA | CHARTERS |
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| # FREE DAYS | |
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| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Industry Analysis & Information | Term. Is. | 2.5 | 167.7 | Dentler, John L. | Fisheries Industry Information |

A. PROBLEM STATEMENT/OBJECTIVE: Program objectives are to provide policy, guidance, supervision and direction to the Trade Analysis, South Pacific Tuna Treaty, and Statistics and Market News Programs. In addition, to facilitate development of new fisheries and find alternatives to present fishing gear. Program elements also include the Saltonstall-Kennedy Grant Program which is directed at overcoming problems and impediments which prevent full and wise utilization of fishery resources.

B. METHODOLOGY/APPROACH: Division supervision and guidance is delivered through standard management techniques and procedures. Development of alternative fisheries and fishing gear is achieved through direct contact with the fishing and seafood industry and through field testing of gear-effectiveness and efficiency. The Saltonstall-Kennedy grant Program is administered through consultation with NMFS and other government agencies and via contact with the fishing industry. Cooperative Agreements are awarded for projects deemed to address NMFS and industry needs.

C. PRODUCT/SERVICES: Products and Services range from reports on results of fishery development activities, final Saltonstall-Kennedy Grant reports and various memorandum and technical reports which are distributed to the fishing industry and government agencies. Fishermen are also kept apprised of results through direct contact with industry.

D. CLIENTS: Clients are participants in the fishing and seafood industry in the Southwest Region as well as NMFS and other government representatives.

E. CONTRACTS: None at this time.

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| Dentler, John L. | Chief, Trade & Industry Services | GM/14/2 | 50 | 8L1B2ATA |
| Shields, Karen L. | Division Secretary | GS/5/3 | 100 | 8L1B2ATA |
| Kato, Susumu | Fishery Research Biologist | GM/14/0 | 100 | 8L1B2ATA |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | FY 89 2 | FY 89 3 | FY 89 4 | 90 1 | 90 2 | 91 1 | 91 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1B2ATA | 1 | M | Complete Grant negotiations for those projects approved for funding by the Assistant Administrator. (November 1988) | N | | | | | | | |
| " | 2 | E | Solicit comments for regional S-K Grant priorities from industry and scientific community. (November 1988) | N | | | | | | | |
| " | 3 | M | Develop and forward SWR S-K Grant priorities for mainland and Pacific island areas to Washington Office for approval. (Dec 1988) | D | | | | | | | |
| " | 4 | M | Complete evaluation of three S-K projects funded with 1987 funds and forward to Regional Director (NA88-ABH-0009, NA88-ABH-0010 and NA88-ABH-0011). (March 1989) | | M | | | | | | |
| " | 5 | M | Prepare report for RD's approval on plan and options to publish and distribute "California's Marine Resources and their Utilization." (March 1989) | | M | | | | | | |
| " | 6 | E | Solicit proposals from SWR constituents for S-K program. (April 1989) | | | A | | | | | |
| " | 7 | E | Ensure that Program Officers meet with Grant Recipients approximately half-way through S-K Grant cycle. (April 1989) | | | A | | | | | |
| " | 8 | E | Receive proposals relating to SWR S-K program. (May 1989) | | | M | | | | | |
| " | 9 | E | Coauthor outline and draft on "Utilization of Pacific Grenadier in California." (June 1989) | | | J | | | | | |
| " | 10 | M | Complete evaluation of final report on mahimahi export strategies. (June 1989) | | | J | | | | | |
| " | 11 | E | Obtain scientific and technical reviews of SWR S-K proposals. (July 1989) | | | | J | | | | |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | 2 | 3 | 4 | 90 1 | 2 | 91 1 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1B2ATA | 12 | M | Present to Regional Director recommended package of S-K Grant projects with recommended modifications and funding amounts attached and recommend Program Officer. (August 1989) | | | | A | | | | |
| " | 13 | E | Complete outline and draft report on sea urchins and other assigned underutilized species to be included in "California's Marine Resources and their Utilization." (September 1989) | | | | S | | | | |
| " | 14 | M | Coauthor and submit for publication paper on "Utilization of Pacific Grenadier in California." (September 1989) | | | | S | | | | |
| " | 15 | A | Investigate and coordinate with S-K Grant Recipient hagfish technology, methods and potential. | X | X | X | X | X | | | |
| " | 16 | A | Investigate Korean fisheries technology employed in hagfish fishery. | X | X | X | X | | | | |
| " | 17 | A | Coordinate with consortium of representatives from CA Sea Grant, Marine Advisory personnel,and CDFG to plan to update and publish "California's Marine Resources and their Utilization". | X | X | X | X | X | X | | |
| " | 18 | A | Keep Regional S-K Grant Program Officers aware of special problems and duties regarding 1987 and 1988 awards. | X | X | X | X | | | | |
| " | 19 | A | Distribute S-K final reports as they become available. | X | X | X | X | | | | |
| " | 20 | A | Investigate new alternative fisheries, specifically box-crab and sanddab. | X | X | X | X | | | | |
| " | 21 | A | Provide assistance to constituents in identifying alternative fishery resources. | X | X | X | X | | | | |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L1B2ATA | 22 | A | Serve as Program Officer for Cooperative Agreement on mahimahi export strategies. | X | X | X | X | | | | |
| | | | | | | | | | | | |
| " | 23 | E | Complete outline and draft report on hagfish fishing techniques, handling methods, processing methods and preliminary fishing potential. (January 1990) | | | | | | J | | |
| " | 24 | M | Complete section of "California's Marine Resources and their Utilization" dealing with underutilized resources. (January 1990) | | | | | | J | | |
| " | 25 | M | Publish and distribute report on hagfish fishery, life history and fishery potential. (June 1990) | | | | | | | J | |
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NOAA FISHERIES
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RESOURCE SUMMARY

| | |
|---|---|
| APPROVAL SIGNATURE -> | TITLE -> Tuna Fishery Monitoring Program |
| HQ CONTACT(S) -> | |

| TASK NAMES -> | | | | | V |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 8L1B2CTT | | | | |
| DIRECT LABOR | 77.8 | | | | 77.8 |
| PERS. BENEFITS | 22.1 | | | | 22.1 |
| TRAVEL | 30.0 | | | | 30.0 |
| TRANSPORTATION | 5.3 | | | | 5.3 |
| RENT,COMM.,UTIL. | 2.0 | | | | 2.0 |
| PRINT/REPROD. | 3.2 | | | | 3.2 |
| CONTRACTS | 41.6 | | | | 41.6 |
| SUPPLIES/MATERIAL | 3.0 | | | | 3.0 |
| EQUIPMENT | 15.0 | | | | 15.0 |
| GRANTS | | | | | |
| TOTALS -> | 200.0 | | | | 200.0 |
| FTE (FTP) | 3.5 | | | | 3.5 |
| FTE (OTFTP) | | | | | |

| VESSELS # SEA DAYS ALLOC. | |
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| NOAA | CHARTERS |
| | |
| # FREE DAYS | |
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| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Tuna Fishery Monitoring Program | Am. Samoa | 3.5 | 200 | Yamasaki, G. | Fishery Industry Information |

A. PROBLEM STATEMENT/OBJECTIVE: Program objective is to fulfill U.S. obligations pursuant to the South Pacific Tuna Treaty and in so doing, ensure that licensed tuna seiner owners and operators understand and comply with the rules and regulations of the Treaty.

B. METHODOLOGY/APPROACH: Staff is based in American Samoa where Catch Report Forms and Unloading Logbooks are collected and inspected for accuracy and completeness, catch is sampled for length, frequency and species composition, and data is forwarded to the Southwest Fisheries Center. Staff also assists in the placement and orientation of Forum Fishery Agency observers placed aboard U.S. vessels and otherwise solve problems that arrise. Staff in Guam also assists with the placement of FFA observers on vessels departing from Guam and collects and inspects reporting forms required by the Treaty. Staff in Terminal Island maintains high level contacts with FFA personnel, provides overall policy guidance and is responsible for supervision of field staff.

C. PRODUCT/SERVICES: Products and services have included an instructional video tape describing to licensed tuna vessel owners and operators the basis, obligations, duties, rules and regulations of the Treaty. In addition, a guidebook entitled "Purse Seine Fishermen's Guide to the South Pacific Tuna Treaty" was also produced and distributed to those vessel owners and operators licensed to fish under the Treaty. The guidebook also describes the requirements of the Treaty.

D. CLIENTS: Those vessel owners and operators licensed to fish under the SPTT -- currently some 29 vessels. In addition, staff also supports information and data needs of NMFS headquarters and the U.S. Department of State.

E. CONTRACTS: None at this time.

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| Dentler, John L. | Chief, Trade & Industry Services | GM/14/2 | 25 | 8L1B2CTT |
| Yamasaki, Gordon S. | Fishery Biologist - Program Leader | GS/9/1 | 100 | 8L1B2CTT |
| Mata'utia, Paulo | Fishery Bio-Technician | GS/4/1 | 100 | 8L1B2CTT |
| VACANT | Fishery Bio-Technician | GS/5/1 | 100 | 8L1B2CTT |
| Shibazaki, Bobby | Special Agent | GS/9/2 | 25 | 8L1B2CTT |

FORM 4

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L1B2CTT | 1 | A | Collect and collate information on tuna landings at Pago Pago, and on transhipments and report to SWR. | X | X | X | X | | | | |
| " | 2 | E | On bimonthly basis, report on vessel ETA/ETDs, fishing activity and staff accomplishments to the SWR. | X | X | X | X | | | | |
| " | 3 | A | Take biological and fishing samples of tuna landed at Pago Pago. | X | X | X | X | | | | |
| " | 4 | A | Issue periodic reports on landing summaries and other pertinent information to SWC and SWR. | X | X | X | X | | | | |
| " | 5 | M | Complete analysis of program effectiveness and efficiency and make recommendation for program and operational changes to improve South Pacific Tuna Treaty. (February 1989) | | F | | | | | | |
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FORM 1

NOAA FISHERIES
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> [signature] TITLE -> Statistics and Market News Program

HQ CONTACT(S) ->

| TASK NAMES -> | Statistics | Market News | | | |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 8L2A4NMA | 8L2A3NMN | | | |
| DIRECT LABOR | 54.0 | 13.7 | | | 67.7 |
| PERS. BENEFITS | 8.1 | 2.1 | | | 10.2 |
| TRAVEL | 3.4 | | | | 3.4 |
| TRANSPORTATION | | | | | |
| RENT,COMM.,UTIL. | 14.3 | 9.8 | | | 24.1 |
| PRINT/REPROD. | | | | | |
| CONTRACTS | 3.7 | 3.5 | | | 7.2 |
| SUPPLIES/MATERIAL | 0.4 | 2.0 | | | 2.4 |
| EQUIPMENT | | 1.3 | | | 1.3 |
| GRANTS | | | | | |
| TOTALS -> | 83.9 | 32.4 | | | 116.3 |
| FTE (FTP) | 2.0 | 0.75 | | | 2.75 |
| FTE (OTFTP) | | | | | |

| VESSELS # SEA DAYS ALLOC. | |
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| NOAA | CHARTERS |
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| # FREE DAYS | |
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| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Statistics and Market News Program | Term. Is. | 2.8 | 116.3 | Donley, P. | Fisheries Mgmt. Program |

A. PROBLEM STATEMENT/OBJECTIVE: Program objectives are to provide the NOAA NMFS, other government agencies and private industry with current information and statistics on the status of regional fisheries and to keep government and industry apprised of the status of regional and national seafood markets through the collection, assembly, analysis and dissemination of regional commercial fishery statistics and market information.

B. METHODOLOGY/APPROACH: Commercial fishery statistics and market information concerning Southwest Region fisheries is obtained through the voluntary cooperation of industry constituents and local, state, federal and international government agencies. Formal and informal surveys are conducted in person, on the telephone, through the mails and by access to computer data files.

C. PRODUCT/SERVICES: Products include monthly and annual data sets provided to NOAA NMFS Central Office for use in national publications, reports compiled and published locally as Administrative or Technical Reports, and the "Terminal Island Fishery Market News Report" published three times per week and mailed to approximately 400 subscribers. Direct services are provided to government and seafood industry constituents in the form of data sets and reports that answer specific requests.

D. CLIENTS: Principal clients are regional and national offices of NOAA NMFS and other government agencies; such as, USDA, U.S. Customs Service, International Trade Commission and Food and Agricultural Organization of the UN. Industry constituents include processors, wholesalers, importers, exporters, fishing companies, retailers and industry organizations; such as, the National Fisheries Institute, California Fisheries and Seafood Institute, West Coast Fisheries Development Foundation, etc.

E. CONTRACTS: None at this time.

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| Donley, Patrica J. | Fishery Reporting Spec. - Program Leader | GS/12/5 | 100 | 8L2A4NMA |
| Thabault, Michael G. | Fishery Reporting Spec. | GS/5/2 | 100 | 8L2A4NMA |
| Deering, Richard A. | Market News Clerk | GS/5/3 | 75 | 8L2A3NMN |

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| SWR | 203 | 4 OF 5 |

MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | FY 89 2 | FY 89 3 | FY 89 4 | 90 1 | 90 2 | 91 1 | 91 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L2A4NMA | 1 | M | Evaluate final report and recommend method of distribution for S-K project report 86-ABH-00025 -- Albacore Marketing. (November 1988) | N | | | | | | | |
| " | 2 | E | Present Chief with outline and draft of Tuna Trade Summary, 1987. (November 1988) | N | | | | | | | |
| " | 3 | M | Evaluate final report and recommend method of distribution for S-K project report 86-ABH-00030 -- Onboard handling of Albacore Tuna. (December 1988) | D | | | | | | | |
| 8L2A3NMN | 4 | E | Complete draft report on outcome of market news survey. (Jan 1989) | | J | | | | | | |
| 8L2A4NMA | 5 | M | Evaluate final report and recommend method of distribution for S-K project report 86-ABH-00039-Retail Training School. (January 1989) | | J | | | | | | |
| " | 6 | M | Publish and distribute Tuna Trade Summary, 1987. (January 1989) | | J | | | | | | |
| 8L2A3NMN | 7 | M | Complete assessment of market news survey and present to RD options and recommended changes, if any, to Terminal Island Market News Report. (February 1989) | | F | | | | | | |
| " | 8 | E | Investigate the potential of presenting market (landings, exvessel, wholesale) and fishery trends in Terminal Island Market News and present recommendations to Chief. (March 1989) | | M | | | | | | |
| | | E | Collect and disseminate landings by volume and value for California and Hawaii for 1988. (March 1989) | | M | | | | | | |
| | | E | Collate and disseminate SWR seafood processor/wholesaler information survey. (June 1989) | | | J | | | | | |

CURRENT YEAR OPERATING PLAN

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| SWR | 203 | 5 OF 5 |

MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | 2 | 3 | 4 | 90 1 | 2 | 91 1 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L2A4NMA | 11 | E | Improve list of processors in California and evaluate the need to re-establish mandatory processor reports. Make recommendations to Chief. (July 1989) | | | | J | | | | |
| " | 12 | A | Distribute processor/wholesaler reporting forms. | X | X | | | | | | |
| " | 13 | A | Serve as program officer for S-K project 88-SWR-067 - Production of Booklet on Commercial Fishing Vessel Safety in Vietnamese. | X | X | X | X | | | | |
| 8L2A3NMN | 14 | A | Incorporate the use of new computer equipment in the production of Terminal Island Market News. | X | X | X | X | | | | |
| " | 15 | A | Collect and publish market and fishery information in Terminal Island Market News report three times per week. | X | X | X | X | X | X | X | X |
| 8L2A4NMA | 16 | M | Evaluate final report and recommend method of distribution for S-K project report 88-SWR-067 -- Production of Booklet on Commercial Fishing Vessel Safety in Vietnamese. (December 1989) | | | | | D | | | |
| | | | | | | | | | | | |
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FORM 1

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

| DATE | October 7, 1988 | |
|---|---|---|
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RESOURCE SUMMARY

| | | | | | |
|---|---|---|---|---|---|
| APPROVAL SIGNATURE -> | (signature) | | TITLE -> | Trade Analysis Program | |
| HQ CONTACT(S) -> | | | | | |
| TASK NAMES -> | | | | | V |
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 8L3B2LTA | | | | |
| DIRECT LABOR | 111.4 | | | | 111.4 |
| PERS. BENEFITS | 21.0 | | | | 21.0 |
| TRAVEL | 4.3 | | | | 4.3 |
| TRANSPORTATION | 0.2 | | | | 0.2 |
| RENT,COMM.,UTIL. | 11.3 | | | | 11.3 |
| PRINT/REPROD. | 2.0 | | | | 2.0 |
| CONTRACTS | 234.5 | | | | 234.5 |
| SUPPLIES/MATERIAL | 2.0 | | | | 2.0 |
| EQUIPMENT | 4.0 | | | | 4.0 |
| GRANTS | | | | | |
| TOTALS -> | 390.7 | | | | 390.7 |
| FTE (FTP) | 4.25 | | | | 4.25 |
| FTE (OTFTP) | | | | | |

| VESSELS # SEA DAYS ALLOC. | |
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| NOAA | CHARTERS |
| | |
| # FREE DAYS | |
| | |

CROSS REFERENCES

CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

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| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Trade Analysis Program | Term. Is. | 4.2 | 390.7 | Sonu, S.C. | Fisheries Development Program |

A. PROBLEM STATEMENT/OBJECTIVE: Program objectives are: 1) To identify tariff and non-tariff trade barriers which act to constrain exports of regional seafood exports; 2) To provide information and analyses to government and industry concerning export trade requirements, market conditions, technology transfer and new product development; and 3) To provide information to the national office in support of trade negotiations.

B. METHODOLOGY/APPROACH: Information and data on foreign markets and technology are obtained through reviews of Asian trade newspapers and other fishery journals, contact with appropriate consulate offices, trade firms and other fishery-related businesses, both in the United States and abroad. In addition, international organizations such as the FAO are a source of data and information. Standard analyses are performed on the data and information, and options and recommendations are made.

C. PRODUCT/SERVICES: "Foreign Fishery Information Release," a supplement to the "Terminal Island Market News Report" is distributed to exporters and importers of U.S. seafood products and reports current developments in Japanese, Korean and other Asian fisheries which impact or present opportunities to U.S. seafood industry interests. Administrative and Technical Reports and Memorandum also serve to keep industry and government officials apprised of technological and trade developments.

D. CLIENTS: Principle clients are regional and national seafood industry, in particular, exporters of U.S. seafood products. In addition, the program serves NMFS headquarters in support of on-going trade negotiations and analyses.

E. CONTRACTS: None at this time.

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| Dentler, John L. | Chief, Trade & Industry Services | GM/14/2 | 25 | 8L3B2LTA |
| Sonu, Sunee C. | Trade Analyst - Program Leader | GM/13/0 | 100 | 8L3B2LTA |
| Phu, Chi H. | Trade Reference Assistanct | GS/6/1 | 100 | 8L3B2LTA |
| VACANT | Statistical Assistant | GS/5/1 | 100 | 8L3B2LTA |
| VACANT | Fishery Dev Specialist | GS/7/1 | 100 | 8L3B2LTA |

CURRENT YEAR OPERATING PLAN

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| SWR | 204 | 4 OF 7 |

MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | FY 89 2 | FY 89 3 | FY 89 4 | 90 1 | 90 2 | 91 1 | 91 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L3B2LTA | 1 | E | Present recommendations to Chief on ways to minimize staff time needed to respond to inquiries and maximize staff time for trade analysis. (January 1989) | | J | | | | | | |
| " | 2 | E | Present draft report on squid trade analysis to Chief. (January 1989) | | J | | | | | | |
| " | 3 | E | Present results of squid trade analysis at International Conference in Portugal. (March 1989) | | M | | | | | | |
| " | 4 | M | Present final report on squid trade analysis to Regional Director. (April 1989) | | | A | | | | | |
| " | 5 | E | Present outline of trade analysis of sea urchin roe. (June 1989) | | | J | | | | | |
| " | 6 | E | Present outline of trade analysis of sablefish. (August 1989) | | | | A | | | | |
| " | 7 | M | Complete and present to Regional Director final report on trade analysis of sea urchin roe. (September 1989) | | | | S | | | | |
| " | 8 | A | Investigate alternative methods of response to requests for foreign information leads which will maximize staff time and leave more time for trade analyses. | X | | | | | | | |
| " | 9 | A | Collect information on trade of sea urchin roe. | X | X | X | | | | | |
| " | 10 | A | Collect information on trade for sablefish. | X | X | X | X | | | | |

CURRENT YEAR OPERATING PLAN

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 88 | | | | 89 | | 90 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L3B2LTA | 11 | E | Collect and collate information on foreign seafood markets and present for publication in FFIR two (2) times per month. | X | X | X | X | X | X | X | X |
| " | 12 | E | Present draft report on trade analysis of sablefish to Chief. (January 1990) | | | | | J | | | |
| " | 13 | M | Complete and present to Regional Director final report on trade analysis of sablefish. (April 1990) | | | | | | A | | |
| | | | | | | | | | | | |
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr

TITLE -> Pop. Biol. of Fish. of Coast E. Pac.

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | V |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1<br>8L1A3AA0 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| DIRECT LABOR | 238.8 | | | | 238.8 |
| PERS. BENEFITS | 35.8 | | | | 35.8 |
| TRAVEL | 6.0 | | | | 6.0 |
| TRANSPORTATION | 0.0 | | | | 0.0 |
| RENT,COMM.,UTIL. | 12.0 | | | | 12.0 |
| PRINT/REPROD. | 0.0 | | | | 0.0 |
| CONTRACTS | 4.0 | | | | 4.0 |
| SUPPLIES/MATERIAL | 20.0 | | | | 20.0 |
| EQUIPMENT | 11.5 | | | | 11.5 |
| GRANTS | 10.0 | | | | 10.0 |
| TOTALS -> | 338.1 | | | | 338.1 |
| FTE (FTP) | 7.0 | | | | 7.0 |
| FTE (OTFTP) | 1.5 | | | | 1.5 |

| VESSELS # SEA DAYS ALLOC. | |
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| NOAA | CHARTERS |
| | |
| # FREE DAYS | |
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CROSS REFERENCES

EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Pop. Biol. Fish. Coast | La Jolla | 8.5 | 338.1 | J.R. Hunter | Resource Information |

A. PROBLEM STATEMENT/OBJECTIVE: This task provides biological data needed for fishery independent biomass assessment of coastal pelagic and groundfishes and data needed for understanding the dynamics of these populations such as estimating the effect of environment and population size and structure on growth, reproduction, mortality, and recruitment. Data are also provided on potential interactions among major fish stocks.

B. METHODOLOGY/APPROACH: Our approach is to emphasize the development of new methodologies and evaluations of methods and assumptions underlying standard techniques while providing data needed for management of the stocks. Methodologies include: (1) Laboratory studies designed to develop accurate tools and procedures for sea assessment of biological rates such as spawning, growth, starvation mortality, predation mortality, and use and allocation of energy, (2) Conduction of annual cruises designed to estimate these rates, and (3) Analysis of these data and in cooperation with other Coastal Division staff, the development of models that provide estimates of biomass and population dynamics based on the data collected at sea.

C. PRODUCT/SERVICES: We produce two classes or products: (1) Parameter estimates and models used b the Commercial and Recreational Fisheries Research Management program of the Center for biomass estimates and for incorporation in management plans for west coast groundfish and wetfish stocks and (2) Development of new methodologies and concepts used by fishery scientists in other NMFC Centers, state agencies, and fisheries groups world-wide and made available through scientific publication and presentation. For example, this task has played a leading international role in recruitment research and ichthyoplankton biomass assessment.

D. CLIENTS: Models and population assessments produced by the task will be used by various fishery management teams including Fishery Management Plan Teams, the Pacific Management Council, California Department of Fish and Game, and other state management groups.

E. CONTRACTS: Production of histological slides of fish ovaries collected on MNFS surveys ($4K). Private microtechnique vendors are used.

PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | | % TIME | TASK # |
|---|---|---|---|---|---|
| FTE | | | | | |
| 1. John R. Hunter | Fish. Biol. Res. Adm. | GM | 15/00 | 100% | 8L1A3AA0 |
| 2. Alice G. Theilacker | Fishery Biologist Research | GS | 12/06 | 100% | 8L1A3AA0 |
| 3. Carol A. Kimbrell | Fishery Biologist Research | GS | 09/06 | 100% | 8L1A3AA0 |
| 4. Eric A. Lynn | Fishery Biologist Research | GS | 09/06 | 100% | 8L1A3AA0 |
| 5. Beverly J. Macewicz | Fishery Biologist Research | GS | 09/05 | 100% | 8L1A3AA0 |
| 6. Diane E. Foster | Secretary | GS | 05/02 | 100% | 8L1A3AA0 |
| 7. Vacant | Fishery Biologist Research | GS | 05/01 | 100% | 8L1A3AA0 |
| OTHER | | | | | |
| 8. Sharon Kramer | Biological Technician | GS | 07/01 | 50% | 8L1A3AA0 |
| 9. Vacant | Biological Aid | GS | 05/01 | 50% | 8L1A3AA0 |
| 10. Vacant | Biological Aid | GS | 05/01 | 50% | 8L1A3AA0 |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L1A3AA0 | 1 | E | Conduct survey to evaluate the Egg Production Method (EPM) for estimating sablefish biomass | O | M | | | | | | |
| " | 2 | A | Develop EPM estimation techniques for slope groundfish and provide parameter estimates | O | - | - | - | - | - | - | - |
| " | 3 | E | Write manuscript on EPM biomass assessment of Dover sole in central California | O | - | - | J | | | | |
| " | 4 | E | Write manuscript on water content of Dover sole | O | - | J | | | | | |
| " | 5 | E | Write manuscript on reproduction of sablefish | O | - | J | | | | | |
| " | 6 | A | Establish brood stocks of Dover sole and sablefish and begin work on induction of spawning | O | - | - | - | - | - | - | - |
| " | 7 | E | Write manuscript on new criteria for histological assessment of larval condition | O | - | J | | | | | |
| " | 8 | A | Develop an immunoassay to study predator prey relations | O | - | - | - | - | - | - | - |
| " | 9 | E | Complete final report on value of inshore habitat to the Halibut Fishery | O | - | J | | | | | |

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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr

TITLE -> Fisheries Environmental Invest.

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1<br>8L1A4BEO | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| DIRECT LABOR | 222.3 | | | | 222.3 |
| PERS. BENEFITS | 33.3 | | | | 33.3 |
| TRAVEL | 4.0 | | | | 4.0 |
| TRANSPORTATION | 0.0 | | | | 0.0 |
| RENT,COMM.,UTIL. | 3.8 | | | | 3.8 |
| PRINT/REPROD. | 2.0 | | | | 2.0 |
| CONTRACTS | 0.0 | | | | 0.0 |
| SUPPLIES/MATERIAL | 2.0 | | | | 2.0 |
| EQUIPMENT | 4.0 | | | | 4.0 |
| GRANTS | 0.0 | | | | 0.0 |
| TOTALS -> | 271.4 | | | | 271.4 |
| FTE (FTP) | 5.0 | | | | 5.0 |
| FTE (OTFTP) | 1.0 | | | | 1.0 |

| VESSELS # SEA DAYS ALLOC. | |
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| NOAA | CHARTERS |
| | |
| # FREE DAYS | |
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CROSS REFERENCES

EXECUTIVE SUMMARY



| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Fisheries & Envir. Invest. | La Jolla | 6.0 | 271.4 | R.M. Laurs | Resource Information |

A. PROBLEM STATEMENT/OBJECTIVE: This is a comprehensive, multidisciplinary task to conduct studies on the distribution, availability, and migration patterns of North Pacific albacore and associated environmental influences in the eastern North Pacific and on the ecology of selected coastal pelagic and groundfishes in the California Current region.

B. METHODOLOGY/APPROACH: The ecosystems approach is followed in these studies to evaluate fish-ocean relationships which are a necessary part of an albacore resource management model being developed in cooperation with other elements of SWFC. Some of these studies will be conducted in cooperation with the albacore industry including albacore fishery-oceanography research. Computer models will be developed on growth, migration, and changes in distribution of albacore in response to environmental changes. There will be laboratory analysis of otoliths for age determination. Improvements in catch statistics will be promoted and fish tagging experiments conducted in cooperation with fishermen's organizations. The task will conduct research on groundfish oceanography directed toward describing the effects of ocean variability on groundfish recruitment. The task will assume a leading role in the expanding application of satellite remote-sensing to the understanding of fish distribution and availability.

C. PRODUCT/SERVICES: Scientific articles published in marine science literature; written and oral reports of research findings issued to the fishing industry, recreational fishermen, and the general public.

D. CLIENTS: Users of products and research are the U.S. albacore commercial and recreational fishermen and industry buyers and canners. These products help to improve efficiency of operations, improve yields, and save fuel. Knowledge gained by this research will influence judgments in Pacific Fishery management Councils and the Scientific and Statistical Committee in negotiations with other nations involved in west coast fisheries.

E. CONTRACTS:

PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | | % TIME | TASK # |
|---|---|---|---|---|---|
| FTE | | | | | |
| 1. R. Michael Laurs | Supervisory Research Oceanographer | GM | 14/00 | 100% | 8L1A4BEO |
| 2. Ronald J. Lynn | Oceanographer | GM | 13/00 | 100% | 8L1A4BEO |
| 3. Robert Nishimoto | Fishery Biologist Research | GS | 11/06 | 100% | 8L1A4BEO |
| 4. Kenneth A. Bliss | Oceanographer | GS | 11/07 | 100% | 8L1A4BEO |
| 5. Ronald C. Dotson | Fishery Biologist Research | GS | 11/02 | 100% | 8L1A4BEO |
| Other | | | | | |
| 6. Mark Hess | Biological Technician | GS | 05/01 | 100% | 8L1A4BEO |

MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | FY 89 2 | FY 89 3 | FY 89 4 | 90 1 | 90 2 | 91 1 | 91 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1A4BEO | 1 | A | Conduct investigation on NP albacore stock structure using tagging data; prepare report on results | O | - | - | - | M | | | |
| " | 2 | A | Continue development of NP migration by age model using tagging and fishery data; prepare report on results | O | - | - | - | - | S | | |
| " | 3 | E | Conduct research on calibrating/evaluating otolith increment method for ageing NP albacore; prepare MS in collaboration with Honolulu Lab on age and growth | O | - | - | S | | | | |
| " | 4 | E | Conduct research on relationships between NP albacore vulnerability and variations in oceanographic conditions; prepare report on results | O | - | - | - | M | | | |
| " | 5 | E | Prepare MS reviewing recent advances in albacore oceanography | O | - | - | S | | | | |
| " | 6 | E | Conduct field studies tracking albacore and concurrent oceanography for testing hypothesis on role of water clarity influencing albacore at fronts, if NSF funding approved | | | | S | | S | | |
| " | 7 | E | Participate in NP albacore workshop | | | | | | | | |
| " | 8 | E | Participate in SP albacore workshop | | | M | | | | | |
| " | 9 | E | Complete MS on U.S. albacore fishery development in South Pacific | | | | S | | | | |
| " | 10 | A | Collaborate with New Zealand and ORSTOM (?) scientists on merging country data sets and analysis of data for MS dealing with relationships between SP albacore distribution and availability and Subtropical Convergence Zone | O | - | - | S | | | | |

MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L1A4BEO | 11 | A | Conduct albacore fishery advisory operations including seasonal forecasts, give talks, etc. | O | - | - | - | - | - | - | - |
| " | 12 | A | Conduct cooperative tagging program and related research in NP and SP with AFRF | O | - | - | - | - | - | - | - |
| RL1A9100 | 13 | A | Conduct research on using satellite data in groundfish research | O | - | - | - | - | - | - | - |
| " | 14 | E | Complete study on relationships between "Point Conception plume" and albacore availability off southern California | O | - | J | | | | | |
| " | 15 | E | Complete study on applications of SEASAT wind stress data to west coast fisheries | O | - | J | | | | | |
| 8L1A4BEO | 16 | A | Plan oceanographic sampling and participate in groundfish cruises | O | - | - | - | - | - | - | - |
| " | 17 | A | Process and interpret ocean results from groundfish cruises | O | - | - | - | - | - | - | - |
| " | 18 | E | Conduct review of coastal oceanography off northern California and Oregon and prepare report for use in planning groundfish research | | M | | | | | | |
| " | 19 | M | Complete MS on detailed ocean circulation of Southern California Bight with Jim Simpson | | M | | | | | | |
| " | 20 | M | Complete MS on dipole eddy off Southern California with Jim Simpson | | M | | | | | | |

| | | |
|---|---|---|
| SWR | 318 | 1 OF 5 |

RESOURCE SUMMARY

APPROVAL SIGNATURE -> [signature: John F. Carr]

TITLE -> Ecology & Systematics of Fishes

HQ CONTACT(S) ->

| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
|---|---|---|---|---|---|
| TASK NAMES -> | | | | | |
| | 8L1A3AG0 | | | | |
| DIRECT LABOR | 171.4 | | | | 171.4 |
| PERS. BENEFITS | 25.7 | | | | 25.7 |
| TRAVEL | 1.3 | | | | 1.3 |
| TRANSPORTATION | 0.0 | | | | 0.0 |
| RENT,COMM.,UTIL. | 5.0 | | | | 5.0 |
| PRINT/REPROD. | 0.0 | | | | 0.0 |
| CONTRACTS | 0.0 | | | | 0.0 |
| SUPPLIES/MATERIAL | 3.5 | | | | 3.5 |
| EQUIPMENT | 3.5 | | | | 3.5 |
| GRANTS | 0.0 | | | | 0.0 |
| TOTALS -> | 210.4 | | | | 210.4 |
| FTE (FTP) | 5.0 | | | | 5.0 |
| FTE (OTFTP) | 0.0 | | | | 0.0 |

| VESSELS # SEA DAYS ALLOC. | |
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| | |
| NOAA | CHARTERS |
| | |
| # FREE DAYS | |
| | |

CROSS REFERENCES

EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Ecol. & System. of Fishes | La Jolla | 5.0 | 210.4 | H.G. Moser | Resource Information |

A. PROBLEM STATEMENT/OBJECTIVE: The primary goal is to produce data and analyses that lead to a comprehensive understanding of the fish stocks of the California Current region in relation to their environment. Plankton surveys provide information on distribution abundance, reproduction, spawning stock biomass, mortality, and recruitment of fish stocks along with associated oceanographic factors. A major goal is to determine how fluctuations in abundance and distribution of fish stocks are related to oceanographic flux and predator-prey interactions.

B. METHODOLOGY/APPROACH: Samples of fish eggs and larvae from historical and current plankton survey and trawl cruises are utilized to produce data for this task. Approximately 300 taxa of fishes are represented in these samples. Processing involves the identification, enumeration, measurement, staging, and computer entry. Resultant data is subjected to time series and community analyses leading to the formulation of ecosystem models.

C. PRODUCT/SERVICES: (1) Data reports on the distribution and abundance of ichthyoplankton from California and Baja California from 1939 to the present, (2) Time series summaries showing seasonal and interannual changes in abundance and distribution of major species, (3) Ecological analyses that elucidate species interaction and environmental effects on abundance, (4) Scientific publications on the early life history of fishes that range from papers on individual species and identification guides to comprehensive treatises, and (5) Training courses on ichthyoplankton and techniques.

D. CLIENTS: Scientists in world-wide public and private institutions use our data, reports, and formal publications in their research on commercial, recreational, and ecologically important fish stocks and in formulating ecosystem models. Managers and councils use our information in establishing optimal harvest quotas and conserving territorial fish stocks. The fishing industry uses our information in determining areas of abundance of target species. Private consulting firms and conservation agencies use information in producing their reports. The task has a long-standing commitment to training professional biologists and the public.

E. CONTRACTS:

PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | | % TIME | TASK # |
|---|---|---|---|---|---|
| FTE | | | | | |
| 1. H. Geoffrey Moser | Supv. Fishery Biologist (R) | GM | 14/00 | 100% | 8L1A3AG0 |
| 2. Elizabeth Stevens | Fishery Biologist (R) | GS | 11/05 | 100% | 8L1A3AG0 |
| 3. David Ambrose | Fishery Biologist (R) | GS | 11/02 | 100% | 8L1A3AG0 |
| 4. Elaine Acuna | Biological Lab Technician | GS | 09/07 | 100% | 8L1A3AG0 |
| 5. Vacant | Fishery Biologist (R) | GS | 09/01 | 100% | 8L1A3AG0 |

MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | 2 | 3 | 4 | 90 1 | 2 | 91 1 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1A3AG0 | 1 | M | Complete manuscript on biomass estimation of central California coast Dover sole population (with CFRD Groundfish Team) | O | - | J | | | | | |
| " | 2 | E | Identify, stage, and measure planktonic stages of Dover sole, sablefish, and other target species from 1988-1989 survey samples | O | - | - | S | | | - | - |
| " | 3 | A | Process and analyze ichthyoplankton data from 1987-1989 surveys (with CFRD Groundfish Team) | O | - | - | - | - | - | - | - |
| " | 4 | E | Plan and participate in 1989 groundfish assessment cruise to be carried out jointly with NWAFC (with CFRD Groundfish Team) | O | - | J | | | | | |
| " | 5 | A | Continue study of vertical and horizontal distribution of Dover sole and sablefish early life history stages | O | - | - | - | - | - | - | - |
| " | 6 | A | Continue study of planktonic & demersal components of Calif. Current ecosystem based on CalCOFI data base & groundfish survey cruises (with Tasks 319 and 320) | O | - | - | - | - | - | - | - |
| " | 7 | E | Analysis of length frequencies of 4 CalCOFI flatfish species (halibut, Dover, rex, & fantail soles) completed & report published | O | - | - | S | | | | |
| " | 8 | A | Ecological analysis of CalCOFI ichthyoplanton assemblages. Collaborate with P. Smith on paper describing seasonality & abundance patterns for CalCOFI surveys from 1954-1960. Begin work on analysis of entire time series | O | - | - | - | - | - | - | - |
| " | 9 | E | Identification and computer entry of ichthyoplankton from 1984 CalCOFI Survey and prepare data report | O | - | - | S | | | | |
| " | 10 | A | Identification guide to CalCOFI ichthyoplankton. Areal and seasonal distributional synopsis published (with Tasks 319 and 320) Begin work on identification guide manuscript | O | - | - | - | - | - | - | - |

MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | 2 | 3 | 4 | 90 1 | 2 | 91 1 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1A3AG0 | 11 | A | Identification and analysis of CalCOFI surface (MANTA) ichthyo-plankton. Prepare report on sampling system, eggs and sized larvae for 1978 (with Task 319) | O | - | - | - | - | S | | |
| " | 12 | E | Stage eggs for 1989 sardine and anchovy spawning biomass estimates | O | - | - | S | | | | |
| " | 13 | A | Eastern tropical Pacific surface (MANTA) collections; begin work on collections made in 1987 & 1988 marine mammal cruises when sorted | O | - | - | - | - | - | - | - |
| " | 14 | A | Analysis of ichthyoplankton from various cruises (e.g. CalVet collections, Gulf of Calif., habitat, vertical distributions cruises) | O | - | - | - | - | - | - | - |
| " | 15 | E | Finish manuscript on development and distribution of sea chub (opaleye, halfmoon, zebra perch, croakers, and sanddabs) | O | - | - | - | - | S | | |
| " | 16 | E | Prepare paper on distribution and abundance of California halibut larvae and present paper at the Halibut Symposium | O | - | - | S | | | | |
| " | 17 | A | Analysis of functional morphology of larvae, reproduction, & early life history strategies of CalCOFI fishes. | O | - | - | - | - | - | - | - |
| " | 18 | A | Curate collections of CalCOFI fish eggs, larvae, and juveniles | O | - | - | - | - | - | - | - |
| " | 19 | A | Provide consultation, advice, and instruction on research problems dealing with ichthyoplankton and reproductive biology of fishes | O | - | - | - | - | - | - | - |
| " | 20 | A | Review and edit manuscripts and research proposals | O | - | - | - | - | - | - | - |

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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr

TITLE -> Coastal & Pac. Fish. Resource Invest.

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | √ |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 8L1A6AH0 | | | | |
| DIRECT LABOR | 265.8 | | | | 265.8 |
| PERS. BENEFITS | 30.5 | | | | 30.5 |
| TRAVEL | 4.4 | | | | 4.4 |
| TRANSPORTATION | 4.5 | | | | 4.5 |
| RENT,COMM.,UTIL. | 15.0 | | | | 15.0 |
| PRINT/REPROD. | 1.0 | | | | 1.0 |
| CONTRACTS | 61.9 | | | | 61.9 |
| SUPPLIES/MATERIAL | 15.5 | | | | 15.5 |
| EQUIPMENT | 8.0 | | | | 8.0 |
| GRANTS | 0.0 | | | | 0.0 |
| TOTALS -> | 406.6 | | | | 406.6 |
| FTE (FTP) | 5.0 | | | | 5.0 |
| FTE (OTFTP) | 4.5 | | | | 4.5 |

| VESSELS # SEA DAYS ALLOC. | |
|---|---|
| 90 | |
| NOAA | CHARTERS |
| 70 | 20 |
| # FREE DAYS | |
| 32 - SIO | |

CROSS REFERENCES

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Coastal & Pac. Fish. Invest | La Jolla | 9.5 | 406.6 | R. L. Charter | Resource Information |

A. PROBLEM STATEMENT/OBJECTIVE: This task provides the basic information required for the annual assessment of stocks supporting California coastal fisheries. This task provides the logistics in FY 89 for four California Cooperative Oceanic Fisheries Investigation (CalCOFI) and two cooperative groundfish cruises.

B. METHODOLOGY/APPROACH: We will complete six ichthyoplankton survey cruises collecting over 1000 plankton samples. All of the data from these cruises and samples will be processed by the personnel of this task and cooperating people from the University of California's Scripps Institution of Oceanography. These data will be added to the CalCOFI historical time series. We will also be updating and improving the CalCOFI historical data bases (1951-1988). The Aerial Marine Monitoring System (AMRMS) data bases will also be updated as we get new data.

C. PRODUCT/SERVICES: The major products of this task are the CalCOFI data bases, the AMRMS data base, and the newly acquired groundfish information. Major services include logistics for all Coastal Division cruises, data base management, and assistance in data analysis.

D. CLIENTS: The main clients will be the Pacific Fishery Management Council, Scripps Institution of Oceanography, and other NOAA Fishery Centers.

E. CONTRACTS: Aerial Spotter Contracts ($13.1K) is let for data collection for the Aerial Marine Resource Monitoring System. Charter vessels ($15K) to collect Dover sole and sablefish brood stocks. Charter vessel ($20K) for R.O.V. work.

PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| FTE | | | | |
| 1. Richard L. Charter | Sup. Computer Programmer Analyst | GS 12/3 | 100 | 8L1A6AH0 |
| 2. William C. Flerx | Fishery Biologist Research | GS 11/2 | 100 | 8L1A6AH0 |
| 3. Cindy Meyer | Computer Programmer Analyst | GS 11/2 | 100 | 8L1A6AH0 |
| 4. Dimitry Abramenkoff | Fishery Biologist | GS 09/4 | 100 | 8L1A6AH0 |
| 5. Susan Miller | Biological Technician | GS 05/3 | 100 | 8L1A6AH0 |
| FTP | | | | |
| 6. Lucy Dunn | Biological Technician | GS 05/1 | 100 | 8L1A6AH0 |
| 7. Frances Pocinich | Biological Technician | GS 05/1 | 100 | 8L1A6AH0 |
| 8. Mary Alice Lumpkins | Biological Technician | GS 05/1 | 80 | 8L1A6AH0 |
| 9. Mary Farrell | Biological Technician | GS 05/1 | 60 | 8L1A6AH0 |
| 10. Jeanne Haddox | Biological Technician | GS 05/1 | 60 | 8L1A6AH0 |
| 11. Amy Hays | Biological Aid | GS 04/1 | 50 | 8L1A6AH0 |

MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | FY 89 2 | FY 89 3 | FY 89 4 | 90 1 | 90 2 | 91 1 | 91 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1A6AH0 | 1 | E | Prepare clearance request for scientific collecting in foreign seas, e.g., Mexico, if needed. | | | J | | | X | | X |
| 8L1A6AH0 | 2 | A | Maintain close liaison with captain and crew of ships of cooperative agencies. | - | - | - | - | - | - | - | - |
| 8L1A6AH0 | 3 | A | Maintain AMRMS (aerial survey) data base. | - | - | - | - | - | - | - | - |
| 8L1A6AH0 | 4 | A | Assist in design and development of data management system for the groundfish data. | N | F | | | X | X | X | X |
| 8L1A6AH0 | 5 | A | Sorting of plankton samples for groundfish & CalCOFI cruises for major species. | - | - | - | - | - | - | - | - |
| 8L1A6AH0 | 6 | A | Enter and edit all data and sorting results pertinent to the biomass estimates | - | - | - | - | - | - | - | - |
| 8L1A6AH0 | 7 | A | Edit all data collected at sea; correct all errors, enter into CalCOFI and groundfish data bases | - | - | - | - | - | - | - | - |
| 8L1A6AH0 | 8 | A | Design cruise patterns, establish activities, prepare cruise announcements and reports | - | - | - | - | - | - | - | - |
| 8L1A6AH0 | 9 | A | Ready all seagoing equipment for cruises; design and construct experimental gear | - | - | - | - | - | - | - | - |
| 8L1A6AH0 | 10 | A | Maintain close liaison with captain and crew of R/V Daid Starr Jordan and other research vessels | - | - | - | - | - | - | - | - |
| 8L1A6AH0 | 11 | A | Update, improve and use shipboard computer system to allow transfer of digitized CalBOBL and Manta tow data, captain's logs and station logs to SWFC on IBM PC compatibles | - | - | - | - | - | - | - | - |

MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L1A6AH0 | 12 | A | Update and improve CalCOFI data bases, computer programs and edits | - | - | - | - | - | - | - | - |
| 8L1A6AH0 | 13 | A | Consult with program leaders and retrieve data from CalCOFI data bases when needed | - | - | - | - | - | - | - | - |
| 8L1A6AH0 | 14 | A | Develop and implement data entry routines for IBM PC compatibles | - | - | - | - | - | - | - | - |

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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr

TITLE -> Survey Systems Dev. & Evaluation

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1<br>8L1A6AJO | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| DIRECT LABOR | 198.1 | | | | 198.1 |
| PERS. BENEFITS | 29.7 | | | | 29.7 |
| TRAVEL | 2.7 | | | | 2.7 |
| TRANSPORTATION | 0.5 | | | | 0.5 |
| RENT,COMM.,UTIL. | 3.0 | | | | 3.0 |
| PRINT/REPROD. | 0.0 | | | | 0.0 |
| CONTRACTS | 0.0 | | | | 0.0 |
| SUPPLIES/MATERIAL | 2.2 | | | | 2.2 |
| EQUIPMENT | 0.5 | | | | 0.5 |
| GRANTS | 0.0 | | | | 0.0 |
| TOTALS -> | 236.7 | | | | 236.7 |
| FTE (FTP) | 4.0 | | | | 4.0 |
| FTE (OTFTP) | 0.88 | | | | 0.88 |

| VESSELS # SEA DAYS ALLOC. | |
|---|---|
| | |
| NOAA | CHARTERS |
| | |
| # FREE DAYS | |
| | |

CROSS REFERENCES

SWR 318, 319
CA Dept. Fish & Game
Marine Life Research Group, SIO
Instituto Nacional de Pesca

FORM 2

# CURRENT YEAR OPERATING PLAN

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## EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Survey Systems Dev. & Eval. | La Jolla | 4.9 | 236.7 | P.E. Smith | Resource Information |

A. PROBLEM STATEMENT/OBJECTIVE: There are increasing demands for quantitative information on the status of fish stocks for fishery development, management and allocation of stocks. There is historical information on the spawning activity of commercial stocks of fish and their associates and SWC320 maintains files of data from 1939 to the present regarding status of the fish, their spawning grounds and physical oceanographic measurements. Our primary objective is to provide quantiative species and environmental data to aid in development and management of the fisheries.

B. METHODOLOGY/APPROACH: With other specialists, we design and carry out field surveys to gather accurate, precise, inclusive, and representative data on fish population size and spawning area using data on abundance, production, survival, and dispersal of fish eggs and larvae. Consideration is given to the past surveys to maintain continuity with historical data so that time-series may be assembled for the evaluation of changes in the population. We also specify new and archive old data on ocean climatology in the California Current Ecosystem.

C. PRODUCT/SERVICES: Our main products and services are scientific papers on the basic biology of and changes in resource populations and the environment and documented sets of data for other scientists or data summaries for fishery managers.

D. CLIENTS: Our major clients are regional fishery managers, NMFS and California Department of Fish and Game, other scientists at the University of California, and global interests in the understanding of resource population changes.

E. CONTRACTS:

PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | | % TIME | TASK # |
|---|---|---|---|---|---|
| FTE | | | | | |
| 1. Paul E. Smith | Fishery Biologist (R) | GM | 14/00 | 100% | 8L1A6AJO |
| 2. Laurence E. Eber | Oceanographer | GS | 13/10 | 100% | 8L1A6AJO |
| 3. Nancy C. H. Lo | Mathematical Statistician | GS | 13/06 | 100% | 8L1A6AJO |
| 4. John L. Butler | Fishery Biologist (R) | GS | 11/04 | 100% | 8L1A6AJO |
| OTHER | | | | | |
| 5. Charles H. Vedovato | Computer Clerk | GS | 04/01 | 38% | 8L1A6AJO |
| 6. Andrea Calabrese | Biological Aid | GS | 03/01 | 50% | 8L1A6AJO |

MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | 2 | 3 | 4 | 90 1 | 2 | 91 1 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1A6AJO | 1 | M | Complete manuscript on SWFC Egg Production Estimate of Dover sole spawning biomass in 1987 and 1988 Combined (CFRD staff) | O | - | M | | | | | |
| " | 2 | A | Plan and participate in the first joint sablefish assessment development cruise with NWAFC personnel (Lo, Smith & Butler with Hunter, Moser, and Dark, NWAFC) | O | - | J | | | | | |
| " | 3 | A | Conduct comparisons of quality control on deep bongo tows for 1987, 1988 and 1989 | O | - | - | J | | | | |
| " | 4 | E | Write paper on age, growth, depth, and water content of Dover sole (Butler with Hunter, Lynn and Kimbrell) | D | | | | | | | |
| " | 5 | A | Prepare paper on larval duration, metamorphosis and settlement in Dover sole larvae (Butler) | O | M | | | | | | |
| " | 6 | A | Prepare proposal and field test manned submersible and optical or acoustical remotely operated vehicles in sablefish and Dover sole habitat definition (Butler) | O | F | | | | | | |
| " | 7 | A | Analysis of existing topographic data in support of division effort on the slope community in the California Current Ecosystem (Eber) | O | M | | | | | | |
| " | 8 | E | Provide information on catch age structure and CalCOFI anchovy egg production stations for the Stock Synthesis Model to estimate the 1989 Anchovy Biomass (Lo with vice-Methot from Task 391) | | | J | | | J | | J |
| " | 9 | A | Update and modify procedures for estimating spawning biomass of pelagic fish (Lo) | O | - | - | S | | | | |
| " | 10 | A | Evaluate aerial survey log book data base and develop biomass indices for various pelagic fish (Lo) | O | - | J | | | | | |

MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | FY 89 2 | FY 89 3 | FY 89 4 | 90 1 | 90 2 | 91 1 | 91 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1A6AJO | 11 | E | Evaluate aerial survey log book data base and develop Dover sole biomass indices for various pelagic fish (Lo) | O | F | | | | | | |
| " | 12 | E | Complete paper on anchovy growth rates in 1983 El Nino in California Current (Butler) | D | | | | | | | |
| " | 13 | E | Complete paper on larval mortality and recruitment in California sardine (Butler) | O | - | - | S | | | | |
| " | 14 | A | Continue acquisition of CalCOFI hydrocast data from quarterly CalCOFI cruises (Eber) | O | - | - | - | - | - | - | - |
| " | 15 | A | Continue transboundary work on sardine and anchovy (eventually Pacific mackerel and jack mackerel) with regard to description of the catch and evaluation of the spawning stock under the auspices of MEXUS-Pacifico (Smith & Lo) | O | - | - | - | - | - | - | - |
| " | 16 | A | Monitor and advise the Spanish SARP project through the latter half to complete the SWFC Egg Production Method estimate of Spanish and Portuguese transboundary stock of sardine. Organize & conduct a meeting to assemble & publish the results of the biomass estimate and the birthdate estimate from the recruited stock (Smith with Lo, Butler, and Macewicz, SWC301) | O | - | - | - | M | | | |
| " | 17 | A | Monitor and advise the Basque use of the SWFC egg production of the Biscay Bay stock of anchovy, Engraulis enchrasicholus, which is currently under fishing moratorium at lowest biomass in a century (Smith with Lo, Moser, Macewicz and Dickerson, Scannell and Wolf at CalFish & Game) | O | - | - | - | - | S | | |
| " | 18 | A | Monitor and advise SWFC egg production work in other places (Gulf of California, Morocco, South Africa, Brazil, Argentina, Peru) | O | - | - | - | - | - | - | - |

MILESTONE ARRAY

| | | | | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L1A6AJO | 19 | A | Continue conversion of programs from VAX to IBM PC for retrieval and manipulation of CalCOFI standard depth file (Eber) | O | - | M | | | | | |
| " | 20 | E | Complete work on quantitative studies of CalCOFI ichthyoplankton assemblages. Collaborate with Geoff Moser on manuscript describing interannual (1954-1960), regional and seasonal abundance patterns (Smith) | O | - | - | S | | | | |
| " | 21 | A | Begin work on time series analysis of the entire series from 1951 to 1981. Collaborate with Geoff Moser on a manuscript describing the interannual variability of species in the CalCOFI Ichthyo-plankton data set (Smith) | O | - | - | - | - | J | | |
| " | 22 | A | Complete the comparsion of recurrent group assemblages as formed by the adult collections in 1961-63 with the larval fish assemblages formed from the same years (Calabrese, Smith & Moser) | O | - | A | | | | | |
| " | 23 | A | Statistical and survey design consultation to other groups such as Marine Mammals, High Seas Pelagics, SIO, Calif. Dept. of Fish & Game (Lo & Smith) | O | - | - | - | - | - | - | - |
| " | 24 | A | Revise CalCOFI procedures to develop & yield information on, for example, the seasonal, vertical and horizontal distribution of plankton at the microscale and mesoscale levels and other indices of production and interactions among fishes and invertebrates (Gail Theilacker, Mike Mullin, John McGowan, Dick Eppley, Tom Hayward, Loren Haury and Mark Ohman (Smith, Acoustic Doppler Current Profiler) | O | - | - | - | - | S | | |

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|---|---|---|
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr

TITLE -> Commercial & Recreation Fish Mgmt.

HQ CONTACT(S) ->

TASK NAMES ->

| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
|---|---|---|---|---|---|
| | 8L1C2ASO | 8L1C2AS2 | | | |
| DIRECT LABOR | 215.2 | 16.5 | | | 231.7 |
| PERS. BENEFITS | 32.3 | 2.5 | | | 34.8 |
| TRAVEL | 8.0 | 0.0 | | | 8.0 |
| TRANSPORTATION | 0.0 | 0.0 | | | 0.0 |
| RENT,COMM.,UTIL. | 4.0 | 0.0 | | | 4.0 |
| PRINT/REPROD. | 1.5 | 1.0 | | | 2.5 |
| CONTRACTS | 0.0 | 118.0 | | | 118.0 |
| SUPPLIES/MATERIAL | 4.5 | 2.0 | | | 6.5 |
| EQUIPMENT | 3.0 | 0.0 | | | 3.0 |
| GRANTS | 0.0 | 0.0 | | | 0.0 |
| TOTALS -> | 268.5 | 140.0 | | | 408.5 |
| FTE (FTP) | 5.0 | 0.0 | | | 5.0 |
| FTE (OTFTP) | 1.0 | 0.75 | | | 1.75 |

| VESSELS # SEA DAYS ALLOC. | |
|---|---|
| | |
| NOAA | CHARTERS |
| | |
| # FREE DAYS | |
| | |

CROSS REFERENCES

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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Comm. & Recr. Fish. Mgmt. | La Jolla | 6.8 | 408.5 | D.D. Huppert | Inform. Analysis Dissemination |

A. PROBLEM STATEMENT/OBJECTIVE: Biological and economic information is needed for fishery management. Research products needed include contributions to FMPs, other management information documents, fish stock assessments, methodological improvements in stock assessments, economic information on status of commercial fisheries, evaluations of alternative management strategies, and economic evaluations of marine recreational fisheries. Planning and management of the joint SWC/SWR socio-economic fund is also needed.

B. METHODOLOGY/APPROACH: Task biologists utilize historical data bases (CalCOFI, CDFG sea survey, and special SWFC survey and port samples) in conjunction with quantitative analytical models to estimate stock sizes, investigate the population dynamics and sustainable yields, and to evaluate alternative biological aspects of management strategies.

Task economists use data on prices, catches, fishing fleet characteristics, fishing costs, and recreational fishing surveys to assess fishing fleet productivity, evaluate alternative management regulations, and assess economic characteristics of marine recreational fishing.

Program personnel also (1) Plan and participate directly in some seagoing data collection efforts (e.g., surveys of west coast groundfish) and (2) Plan and monitor economics data collection (e.g., fishing vessel cost and earnings data, and recreational fisheries surveys).

C. PRODUCT/SERVICES: Abundance estimates for northern anchovy, Dover sole, and Pacific mackerel. Improved stock assessment techniques. Annual fishery status report for coastal pelagics, and major contributions to reports of Pacific coast groundfish and tuna fisheries. Economic data and analyses of recreational marine fishing; and detailed techniques for economic valuation and productivity measurement.

D. CLIENTS: Information and reports generated in this program are used by (1) the Pacific Fishery Management Council, (2) State-Federal cooperative management efforts, (3) U.S. government agents in tuna fisheries currently or prospectively under international management, (4) U.S. representatives in international fisheries investigations (e.g., Mexus-Pacifico), and (5) Other public groups concerned with nearshore ocean management.

E. CONTRACTS: Collection of Recreational Economics Data in Southern California, (2) Updated Hawaii Fish Markets Study, and (3) Study of sablefish fishing costs.

PERSONNEL SCHEDULE



| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| FTE | | | | |
| 1. Daniel Huppert | Supv. Industry Economist | GM 15/00 | 100% | 8L1C2ASO |
| 2. Samuel Herrick | Industry Economist | GS 12/07 | 100% | 8L1C2ASO |
| 3. Dale Squires | Industry Economist | GS 12/02 | 100% | 8L1C2ASO |
| 4. Cynthia Thomson | Industry Economist | GS 11/04 | 100% | 8L1C2ASO |
| 5. Vacant | Fishery Biologist | GS 12/01 | 100% | 8L1C2ASO |
| Other | | | | |
| 6. Vacant | Computer Aid | GS 07/01 | 50% | 8L1C2ASO |
| 7. Susan Lamping | Computer Aid | GS 04/01 | 50% | 8L1C2AS2 |
| 8. Vacant | Industry Economist (Summer Faculty) | GS 13/01 | 25% | 8L1C2AS2 |
| 9. Vacant | Fishery Biologist | GS 05/01 | 50% | 8L1C2ASO |

MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L1C2ASO | 1 | A | Participate on PFMC's Anchovy Fishery Management Team, and present preliminary anchovy biomass estimate to SWR by July 1, 1989 | O | - | - | J | | | | |
| " | 2 | M | Complete documentation of final anchovy biomass estimate by August 1, 1989 | | | | J | | | | |
| " | 3 | M | Develop annual wetfish fishery information and co-author Administrative Report on the wetfish fishery status by July 7, 1989 | | | | J | | | | |
| " | 4 | A | Assist California Dept. of Fish & Game with stock assessments of wetfish (esp. mackerel and sardine) as/when requested | O | - | - | - | - | - | - | - |
| " | 5 | E | Compile information, in cooperation with SWR and PFRD, for monitoring economics of tuna industry, and provide evaluations, assessments and summaries for Tuna Newsletters and publications | O | - | - | - | - | - | - | - |
| " | 6 | A | Provide information on trends and economic events in tuna fishery on request to industry members and to other elements of NOAA | O | - | - | - | - | - | - | - |
| " | 7 | A | Continue development of empirical troll fleet location and fishing activity model | O | - | J | | | | | |
| " | 8 | E | Complete and distribute paper on search and location information in troll fishery | | | J | | | | | |
| " | 9 | E | Develop small demonstration version of Quadratic Programming Model (QPM) for use in economic impact assessments | | M | | | | | | |
| " | 10 | A | Review, collect, and compile existing information on both local fish supply and demand for Pacific coast fisheries for larger scale QPM | O | - | - | - | - | - | - | - |

MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L1C2ASO | 11 | A | Obtain new information for groundfish, shrimp, crab, and salmon species on Pacific coast for QPM model | O | - | - | - | - | - | - | - |
| " | 12 | M | Implement QPM model and perform analysis of significant changes in fishery management | | | | | F | | | |
| " | 13 | A | Assist PFMC with analysis of and design of proposed limited entry system for groundfish | O | - | - | - | - | - | - | - |
| " | 14 | E | Update commercial groundfish fleet productivity index | | | M | | | | | |
| " | 15 | A | Assist Regional Office economists in implementing linear programming model for evaluation of sablefish allocations | O | - | - | - | O | | | |
| " | 16 | E | Co-author report on economic aspects of sablefish allocations | | F | | | | | | |
| 8L1C2AS2 | 17 | A | Monitor contract collection of southern California recreational fishing economics information | | J | | | J | | | |
| 8L1C2ASO | 18 | M | Assist in compilation, editing and distribution of summary report of SoCal RecFish survey results | | | | | M | | | |
| " | 19 | A | Design economic/statistical models for evaluation of recreational fishing and marine fishing sites in southern California | O | - | - | - | - | - | - | - |
| " | 20 | M | Publish report on estimated economic demands and values associated with recreational fishing | | M | | | | J | | |
| " | 21 | A | In consultation with other economists advising the PFMC, review and summarize methods for estimating economic values for recreational and commercial fishing | O | M | | | | | | |

MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | 2 | 3 | 4 | 90 1 | 2 | 91 1 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1C2ASO | 22 | E | Develop updated guidelines for PFMC on recreational/commercial fishery evaluation, emphasizing correct theory and empirical feasibility | | | | A | | | | |
| " | 23 | A | Coordinate biological data collection and analysis for groundfish fishery with Pacific coast states and NWAFC | O | - | - | - | - | - | - | - |
| " | 24 | E | Develop population size and dynamic parameters for Dover sole and sablefish in cooperation with NWAFC and other CFRD tasks | | | | | N | | | |
| " | 25 | A | Provide other stock assessment and fishery evaluation information to Pacific Fishery Management Council and its Groundfish Management Team as needed | O | - | - | - | - | - | - | - |

NOAA FISHERIES
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| DATE | Oct. 1988 | |
|---|---|---|
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr — TITLE -> Tuna & Large Pelagics Stock Invest.

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | V |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1<br>8L1C5AB2 | TASK #2<br>8L1C5AB1 | TASK #3<br>8L1C2A20 | TASK #4 | TOTALS |
| DIRECT LABOR | 147.1 | 51.4 | 55.8 | | 254.3 |
| PERS. BENEFITS | 21.9 | 7.7 | 8.4 | | 38.0 |
| TRAVEL | 2.5 | 1.2 | 0.8 | | 4.5 |
| TRANSPORTATION | 0 | 0 | 0 | | 0 |
| RENT,COMM.,UTIL. | 5.8 | 0.5 | 0 | | 6.3 |
| PRINT/REPROD. | 4.5 | 1.5 | 1.0 | | 7.0 |
| CONTRACTS | 41.8 | 0 | 0 | | 41.9 |
| SUPPLIES/MATERIAL | 7.0 | 2.5 | 2.5 | | 12.0 |
| EQUIPMENT | 1.1 | 0 | 1.2 | | 2.3 |
| GRANTS | 0 | 0 | 0 | | |
| TOTALS -> | 231.7 | 64.8 | 69.7 | | 366.2 |
| FTE (FTP) | 4.0 | 1.0 | 1.0 | | 6.0 |
| FTE (OTFTP) | 0.5 | 0 | 0.49 | | 0.99 |

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| 0 | 0 |
| # FREE DAYS | |
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CROSS REFERENCES

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| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Tuna Stock Investigations | La Jolla | 7.0 | 366.2 | N. Bartoo | Info. Analysis & Dissemination |

A. PROBLEM STATEMENT/OBJECTIVE: This task investigates and provides advice and information on stocks of tuna and large pelagics found in both the Oceanic ecosystem and the California Current ecosystem. Investigations and work plans are formulated to meet requirements specified by NMFS resource managers associated with international fisheries agreements (IATTC, ICCAT, IOFC, IPTP, S. Pacific Tuna Treaty) and associated with regional fisheries management councils (Pacific and Western Pacific) and with tuna-billfish negotiations. The data and advice are used in International negotiations and discussions, and discussions regarding access, exploitation, conservation, and protection of the resources as well as for generating advice used in formulating domestic policies for conservation and protection, and for management options.

B. METHODOLOGY/APPROACH: The task produces data and biological information developed from experiments and fishery sampling as well as integrating similar data generated by related tasks. The adequacy and accuracy of data and information are assessed, and appropriate fisheries and ecological models are employed or developed to produce required assessments and advice.

C. PRODUCT/SERVICES: Products are scientific and publications providing assessments and ecological information and data on stocks and fisheries as required. Products are distributed in the form of internal reports, newsletters, SWFC Administrative Reports, NOAA Technical Memorandums, and various technical publications.

D. CLIENTS: Principal clients include NMFS managers, U.S. Government commissioners to international organizations, SSC of regional councils, and SWFC scientists.

E. CONTRACTS: Pacific Marine Fisheries Commission; $40.0K - port sampling of U.S. albacore data. IndoPacific Tuna Program; $5K - development of tagging plan. Various private sources; $1K - keypunching of data. NMFS Honolulu; $0.8K - port sampling.

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| N. Bartoo | Supervisory Fishery Biologist (Research) | GM13 | 100 | 8L1C5AB2 |
| D. Au | Fishery Biologist (Research) | GS12/10 | 100 | 8L1C5AB2 |
| D. Holts | Fishery Biologist (Research) | GS11/4 | 100 | 8L1C5AB2 |
| K. Handschuh | Secretary | GS6/6 | 100 | 8L1C5AB2 |
| D. Prescott (T) | Computer Programmer | GS/5 | 50 | 8L1C5AB2 |
| J. Squire | Fishery Biologist (Research) | GS13/10 | 100 | 8L1C5AB1 |
| P. Kleiber | Fishery Biologist (Research) | GM13 | 100 | 8L1C2A20 |
| Z. Mehraz | Operations Research Analyst | GS9/1 | 49 | 8L1C2A20 |

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MILESTONE ARRAY

| | | | | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L1C5AB2 | 1 | E | Publish 1988 sections for tuna and billfish stocks and fisheries reports | | X | | | | | | |
| 8L1C5AB2 | 2 | A | Produce 1989 sections for tuna and billfish compendium | X | X | X | X | | | | |
| 8L1C5AB2 | 3 | E | Publish report on incidental/indicator species | | X | | | | | | |
| 8L1C5AB2 | 4 | A | Analyze data on indicator species | X | | | | | | | |
| 8L1C5AB2 | 5 | A | Conduct joint CF&G/NMFS swordfish tracking experiment | X | | | X | | | | |
| 8L1C5AB2 | 6 | E | Host shark population biology workshop | | X | | | | | | |
| 8L1C5AB2 | 7 | E | Let contract for tagging plan | | X | | | | | | |
| 8L1C2A20 | 8 | E | Host 11th Albacore Workshop | | | X | | | | | |
| 8L1C2A20 | 9 | A | Restandardize albacore effort | X | X | X | | | | | |
| 8L1C2A20 | 10 | A | Document ELEFAN model | | X | | | | | | |
| 8L1C5AB1 | 11 | E | Produce Angler Newsletter | | | X | | | | | |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L1C5AB1 | 12 | A | Conduct Angler Survey | | X | | | | | | |
| 8L1C5AB1 | 13 | A | Coordinate Pacific cooperative billfish tagging | X | X | X | X | | | | |

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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr     TITLE -> Fisheries Data Monitoring

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | ∨ |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 8L1C1AW1 | 8L1C1VW2 | | | |
| DIRECT LABOR | 115.8 | 126.4 | | | 242.2 |
| PERS. BENEFITS | 17.3 | 19.0 | | | 36.3 |
| TRAVEL | 5.5 | 0.0 | | | 5.5 |
| TRANSPORTATION | 0.0 | 0.0 | | | 0 |
| RENT,COMM.,UTIL. | 2.0 | 3.0 | | | 5.0 |
| PRINT/REPROD. | 3.0 | 0.0 | | | 3.0 |
| CONTRACTS | 17.0 | 26.0 | | | 43.0 |
| SUPPLIES/MATERIAL | 1.6 | 1.1 | | | 2.7 |
| EQUIPMENT (Comp.) | 0.0 | 0.0 | | | 0 |
| GRANTS | 0.0 | 0.0 | | | 0 |
| TOTALS -> | 162.2 | 175.5 | | | 337.7 |
| FTE (FTP) | 3.5 | 4.0 | | | 7.5 |
| FTE (OTFTP) | 0.5 | 1.5 | | | 2.0 |

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| NOAA | CHARTERS |
| 0 | 0 |
| # FREE DAYS | |
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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Fisheries Data Monitoring | La Jolla | 9.5 | 337.7 | A. Coan | Info. Analysis & Dissemination |

A. PROBLEM STATEMENT/OBJECTIVE: Inherent in the problem of monitoring ecosystems and forecasting changes in marine resources is the collection of data pertinent to each resource and the creation of comprehensive databases that allow analysis and dissemination of these data. The objective of this task is to address this problem by collecting the required data through various published sources, established data exchange agreements or actual field sampling programs and by creating automated data systems. Collection and processing of data for U.S. purse seiners in the South Pacific is conducted as part of the South Pacific Tuna Treaty. Processing of data for marine mammals is conducted as mandated by the Marine Mammal Protection Act.

B. METHODOLOGY/APPROACH: The task processes tuna-dolphin data and other data collected from field experiments and collections. The task uses various sources including publications, international contacts, data exchange agreements, etc. to collect data. The task also uses statistical methodologies to develop and maintain field sampling programs for the collection of information on marine fisheries for large pelagics, and for collection of information on marine mammals. Current computer technologies are used to develop and maintain data systems and to provide software for support analyses of oceanic and California current ecosystems, and resource forecasting for large pelagic stocks and marine mammals

C. PRODUCT/SERVICES: Principal products of the task are software, data systems and data collection programs in support of research. The task also provides annual summaries of data by fisheries for use in stock assessments and fisheries evaluations as well as by fishermen. The task also provides annual summaries and analyses of data collected by tuna-dolphin observers for use in marine mammal stock evaluations.

D. CLIENTS: The task's products and services are used by the PFRD & FMMID research staff, various foreign and domestic fisheries management organizations, NOAA fishery administrators, industry and constituency groups to monitor and manage stocks of large pelagics, and marine mammals.

E. CONTRACTS: Key Punch - 16K, Various private companies
Microfilming - 6K, University of California, San Diego

FORM 3

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| A. Coan | Superv. Mathematical Stat. | GM/13 | 100 | 8L1C1AW1 |
| A. Majors | Fishery Biologist (Gen.) | GS/9/9 | 100 | 8L1C1AW1 |
| C. Perrin | Computer Programmer Anal. | GS/11/5 | 100 | 8L1C1AW1 |
| D. Prescott (T) | Computer Programmer | GS/5 | 50 | 8L1C1AW1 |
| Vacant | Computer Programmer | GS/5 | 50 | 8L1C1AW1 |
| K. Wallace | Computer Programmer Anal. | GS/11/7 | 100 | 8L1C1VW2 |
| A. Jackson | Fishery Biologist (Res.) | GS/9/4 | 100 | 8L1C1VW2 |
| R. Rasmussen | Fisheries Biologist Tech. | GS/8/6 | 100 | 8L1C1VW2 |
| M. Trianni | Fisheries Biologist Tech. | GS/6/2 | 100 | 8L1C1VW2 |
| R. Tauber (T) | Computer Programmer | GS/5 | 50 | 8L1C1VW2 |
| Vacant * (T) | Computer Programmer | GS/5-7 | 100 | 8L1C1VW2 |

* Position submitted for conversion to permanent

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | 2 | 3 | 4 | 90 1 | 2 | 91 1 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1C1AW1 | 1 | A | Update Atlantic tropical tuna data bases | | J | | S | J | S | J | S |
| 8L1C1AW1 | 2 | A | Develop and maintain data bases for Pacific Ocean and Indian Ocean tunas and other large pelagics | O | | | S | O | S | O | S |
| 8L1C1AW1 | 3 | A | Collect data from fisheries for tunas and large pelagics in the Pacific and Indian Oceans | O | | | S | O | S | O | S |
| 8L1C1AW1 | 4 | A | Process South Pacific Regional Tuna Treaty Data | O | | | S | O | S | O | S |
| 8L1C1AW1 | 5 | E | Reevaluate sampling plan for the collection of fisheries data under the South Pacific Regional Tuna Treaty | | | | J | | J | | J |
| 8L1C1AW1 | 6 | M | Produce report summarizing data for the 1988 North and South Pacific albacore fisheries | | | | J | | J | | J |
| 8L1C1AW1 | 7 | | Provide PFRD with software and hardware support | O | | | S | O | S | O | S |
| 8L1C1VW2 | 8 | | Provide FMMID with software and hardware support | O | | | S | O | S | O | S |
| 8L1C1VW2 | 9 | A | Produce comprehensive data base edits in support of porpoise observer data analyses | O | | | S | O | S | O | S |
| 8L1C1VW2 | 10 | A | Develop new bases and maintain existing data bases for marine mammals | O | | | S | O | S | O | S |
| 8L1C1VW2 | 11 | E | Participate in and process data from eastern tropical Pacific dolphin research cruises | | M | | S | M | S | M | S |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L1C1VW2 | 12 | E | Produce summary of 1987 and 1988 NMFS tuna observer data | | J | M | | M | | M | |
| 8L1C1VW2 | 13 | E | Participate in SWR observer forms review | | | | J | | J | | J |
| 8L1C1VW2 | 14 | E | Develop outline for an historical NMFS tuna observer atlas | | | | S | | | | |
| 8L1C1VW2 | 15 | M | Complete sundown set analysis | D | | | | | | | |
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NOAA FISHERIES
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr | TITLE -> Tuna & Pelagic Fisheries Invest.

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | V |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1<br>8L1C2A30 | TASK #2<br>8L1C2A40 | TASK #3 | TASK #4 | TOTALS |
| DIRECT LABOR | 68.0 | 67.6 | | | 135.6 |
| PERS. BENEFITS | 10.2 | 10.1 | | | 20.3 |
| TRAVEL | 0.8 | 10.7 | | | 11.5 |
| TRANSPORTATION | 0.0 | 0.0 | | | 0.0 |
| RENT,COMM.,UTIL. | 0.0 | 0.8 | | | 0.8 |
| PRINT/REPROD. | 2.0 | 0.8 | | | 2.8 |
| CONTRACTS | 1.0 | 6.0 | | | 7.0 |
| SUPPLIES/MATERIAL | 1.0 | 0.3 | | | 1.3 |
| EQUIPMENT | 1.0 | 0.0 | | | 1.0 |
| GRANTS | 0.0 | 0.0 | | | 0.0 |
| TOTALS -> | 84.0 | 96.3 | | | 180.3 |
| FTE (FTP) | 1.0 | 1.0 | | | 2.0 |
| FTE (OTFTP) | 1.0 | 0.0 | | | 1.0 |

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| NOAA | CHARTERS |
| 0 | 0 |
| # FREE DAYS | |
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CROSS REFERENCES

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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Tuna & Pelagic Fish. Invest | LaJolla | 3 | 180.3 | G. Sakagawa | Info. Analysis & Dissemination |

A. PROBLEM STATEMENT/OBJECTIVE: This task coordinates SWC research efforts on tunas, evaluates and forecasts possible effect on large pelagics of fishing, and of proposed management plans. Additionally, the task provides information on fisheries for tunas in the ocenic ecosystems. Work plans for this task are developed from requirements specified by NMFS managers involved in international fisheries agreements (ICCAT, IATTC, S. Pacific Tuna Treaty, IOFC, IPTP), Pacific Fisheries Management Council, and tuna-billfish negotiations, and in formulating domestic policies for conservation of large pelagic fisheries resources, while providing equitable fishing access to U.S. fishermen.

B. METHODOLOGY/APPROACH: This task uses biological information, fisheries data and economic data collected on a global scale by related tasks of the SWC and SWR. It assesses the accuracy and applicability of the data and information. It then uses appropriate fisheries models, statistics, or modifies existing models to produce reports describing the condition of the stocks and to evaluate possible effects of proposed management actions.

C. PRODUCT/SERVICES:
Principal products are reports describing fishery resources, economic aspects of fishing, processing and trade in fishery products and recent developments in the industry worldwide, assessments of stock and fishery condition and evaluations of likely effects of changes in fishing and management. Reports are produced for internal use, for distribution to constituents (e.g. Tuna Newsletter) and for publication in outlets such as SWFC Administrative Report, NOAA Technical Memorandum, Marine Fisheries Review, etc.

D. CLIENTS:
Principal clients include NMFS managers, U.S. government representatives to international research and management organizations, scientists in domestic and international organizations and U.S. fishing, processing and trading interests, SSC of regional councils.

E. CONTRACTS: None.

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| W. Parks | Fishery Biologist (Research) | GM14 | 100 | 8L1C2A30 |
| G. Sakagawa | Fishery Biologist (Research) | GM15 | 100 | 8L1C2A40 |
| Temporary | | | | |
| D. Pickelsimer | Clerk | GS4/1 | 100 | 8L1C2A30 |

MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L1C2A30 | 1 | A | Monitor developments in world fisheries for tuna and large pelagics. | X | X | X | X | X | X | X | X |
| 8L1C2A30 | 2 | E | Produce and distribute quarterly SWFC Tuna Newsletter | N | F | M | A | X | X | X | X |
| 8L1C2A30 | 3 | A | Coordinate activities to produce SWFC/SWR tuna management information document. | O | | J | | | | | |
| 8L1C2A30 | 4 | A | Monitor fisheries for and trade in fresh tuna and large pelagics | X | X | X | X | X | X | X | X |
| 8L1C2A30 | 5 | E | Complete manuscript on "U.S. Tuna Trade Summary, 1987" | D | | | | | | | |
| 8L1C2A30 | 6 | E | Complete manuscript on Indian Ocean Tropical Tuna | | F | | | | | | |
| 8L1C2A30 | 7 | E | Complete manuscript reviewing U.S. fresh tuna fisheries | | | J | | | | | |
| 8L1C2A40 | 8 | A | Provide background information on research to U.S. section of the IATTC -- March. | | X | | | X | | X | |
| 8L1C2A40 | 9 | A | Provide scientific review and scientific advice to U.S. section of ICCAT - October-August. | X | X | X | | X | X | X | X |
| 8L1C2A40 | 10 | E | Participate in expert consultation to assess the condition of Indian Ocean stocks of tuna and tuna-like species -- June-July. | | | X | X | | X | | X |
| 8L1C2A40 | 11 | E | Produce management information document on U.S. tuna management-June. | | | X | | | | | |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | FY 89 2 | FY 89 3 | FY 89 4 | 90 1 | 90 2 | 91 1 | 91 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1C2A40 | 12 | A | Conduct study on global production for the canned tuna trade -- ongoing. | X | X | X | X | X | X | X | X |
| 8L1C2A40 | 13 | E | Produce chapter on Pacific swordfish fisheries and condition of stocks for SWC status of stocks report -- March. | | X | | | | | | |
| 8L1C2A40 | 14 | A | Coordinate SWC research on tropical tunas -- ongoing. | X | X | X | X | X | X | X | X |
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NOAA FISHERIES
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr

TITLE -> Fishery Independent Assessment - Marine Mammals

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1<br>8L1C4VA1 | TASK #2<br>8L1C4VA2 | TASK #3<br>8L1A6VW0 | TASK #4<br>8L1A5VR4 | TOTALS |
| DIRECT LABOR | 93.7 | 102.3 | 168.3 | 87.6 | 451.9 |
| PERS. BENEFITS | 14.1 | 15.3 | 14.2 | 11.4 | 55.0 |
| TRAVEL | 2.0 | 2.0 | 13.5 | 8.5 | 26.0 |
| TRANSPORTATION | 0 | 0 | 0 | 0 | 0 |
| RENT,COMM.,UTIL. | 0 | 0 | 0 | 0 | 0 |
| PRINT/REPROD. | 0 | 1.2 | 0 | 0 | 1.2 |
| CONTRACTS | 10.0 | 0 | 92.0 | 7.5 | 109.5 |
| SUPPLIES/MATERIAL | 2.5 | 51.0 | 19.8 | 22.5 | 95.8 |
| EQUIPMENT | 2.5 | 2.5 | 2.0 | 0 | 7.0 |
| GRANTS | 0 | 0 | 0 | 0 | 0 |
| TOTALS -> | 124.8 | 174.3 | 309.8 | 137.5 | 746.4 |
| FTE (FTP) | 2.0 | 2.0 | 0 | 2.0 | 6.0 |
| FTE (OTFTP) | 1.0 | 1.5 | 4.9 | 0.75 | 8.15 |

| VESSELS<br># SEA DAYS ALLOC. | |
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| 240 | |
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| X | |
| # FREE DAYS | |
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CROSS REFERENCES

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RESOURCE SUMMARY

APPROVAL SIGNATURE -> | TITLE -> Fishery Independent Assessment

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | V |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1<br>8L1A6VWO | TASK #2<br>8L1A5VR4 | TASK #3 | TASK #4 | TOTALS |
| DIRECT LABOR | 168.3 | 87.6 | | | 255.9 |
| PERS. BENEFITS | 14.2 | 11.4 | | | 25.6 |
| TRAVEL | 13.5 | 8.5 | | | 0 |
| TRANSPORTATION | 0 | 0 | | | 0 |
| RENT,COMM.,UTIL. | 0 | 0 | | | 0 |
| PRINT/REPROD. | 0 | 0 | | | 0 |
| CONTRACTS | 92.0 | 7.5 | | | 99.5 |
| SUPPLIES/MATERIAL | 19.8 | 22.5 | | | 42.3 |
| EQUIPMENT | 2.0 | 0 | | | 2.0 |
| GRANTS | 0 | 0 | | | 0 |
| TOTALS -> | 309.8 | 137.5 | | | 447.3 |
| FTE (FTP) | 0 | 2.0 | | | 2.0 |
| FTE (OTFTP) | 4.9 | 0.7 | | | 5.6 |

| VESSELS<br># SEA DAYS ALLOC. | |
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| 240 | |
| NOAA | CHARTERS |
| 240 | |
| # FREE DAYS | |
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CROSS REFERENCES

EXECUTIVE SUMMARY

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| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Fishery Independent Assess. | SWC-La Jolla | 14.1 | 746.4 | Rennie Holt | Resource Information |

A. PROBLEM STATEMENT/OBJECTIVE: This task is one of eight closely linked tasks involving research on dolphins associated with the Eastern tropical Pacific (ETP) tuna fishery. It provides information on biological impacts of management practices by NMFS as mandated by the Marine Mammal Protection Act (MMPA). Recent Congressional action reauthorizing the MMPA, specified a monitoring program to determine trends in dolphin populations over a long sampling period of 5 years or more. This task is responsible for producing the experimental design to be the monitoring program and a series of annual surveys using NOAA research vessels and an aircraft. It specifies data to be collected and, after they have been collected, analyzes these data to determine the trends in dolphin abundance, and to evaluate possible causes for the trends.

B. METHODOLOGY/APPROACH: The main focus of the task in FY89 is to conduct research ship surveys of ETP dolphins, participate in data collection, complete data analyses and present findings. This will include completing analyses of data collected during 1986, 1987, and 1988, completing computer programs for data analyses, and establishing procedures for reviewing results before release to the general public. In addition, the task will compare two methods of monitoring population change by comparing data from tuna vessels with data from research vessels.

C. PRODUCT/SERVICES: Products of the program are used by NMFS offices charged with drafting management measures for U.S. tuna fishery in the ETP.

D. CLIENTS: At least 5 years of data are required to detect a significant decline in the population with 90% confidence using data analyzed by this task. The information generated is used by NMFS to evaluate management options for protection of the ETP dolphin stocks as prescribed by the MMPA and for management of the annual U.S. fishery for tuna in the ETP. Up-to-date information on the condition of the dolphin populations is key requirement for evaluating and selection of an option.

E. CONTRACTS:
- 14.0K - UCSD computer services - State
- 82.0K - Helicopter maintenance, OAO, Federal
- 10.0K - Fuel for helicopter, OAO, Federal
- 2.5K - Local test flight - Private
- 1.0K - Image analysis - Private

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| Holt, Rennie | Oper. Res. Analyst | GM/14/4 | 100 | 8L1C4VA1 |
| Sexton, Stephanie | Oper. Res. Analyst | GS/9/2 | 100 | 8L1C4VA1 |
| DeMaster, Douglas | Wildlife Biologist | GM/15/2 | 100 | 8L1C4VA2 |
| Ratcliffe, Clifford | Secretary | GS/6/2 | 100 | 8L1C4VA2 |
| Barlow, Jay | Sup. Res. Ops. Res. Analyst | GM/13/2 | 100 | 8L1A5VR4 |
| Gilpatrick, James | Fishery Biologist | GS/7/5 | 100 | 8L1A5VR4 |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | 2 | 3 | 4 | 90 1 | 2 | 91 1 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1C4VA1 | 1 | M | Submit report on ETP dolphin abundance from 1988 MOPS cruise | | D | | | | | | |
| 8L1C4VA1 | 2 | A | Execute 1989 MOPS cruise | | | X | X | D | | | |
| 8L1C4VA1 | 3 | M | Prepare report on 1st two year of MOPS cruises for annual report to Congress | | F | | | | | | |
| 8L1C4VA1 | 4 | A | Investigate differences in school size estimate between research vessels and tuna vessels | X | X | X | X | D | | | |
| 8L1C4VA1 | 5 | M | Prepare report on dolphin abundance for IWC | | | M | | | | | |
| 8L1C4VA1 | 6 | A | Investigate differences in encounter rates between research vessels and tuna vessels | X | X | X | X | X | M | | |
| 8L1A5VR4 | 7 | M | Submit report on observer-photogrammetric school estimates from MOPS 1987 | | | | J | | | | |
| 8L1A5VR4 | 8 | A | Execute helicopter portion of 1989 MPOS cruise | | | X | X | D | | | |
| 8L1A5VR4 | 9 | E | Contribute to report on 1st two years of MOPS cruises for annual report to Congress | | F | | | | | | |
| 8L1A5VR4 | 10 | A | Prepare report on estimation of pinniped pup production at Channel Islands from aerial photographs | X | X | X | X | D | | | |
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr

TITLE -> Biological Assessment Program - Marine Mammals

HQ CONTACT(S) ->

| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
|---|---|---|---|---|---|
| TASK NAMES -> | | | | | ∨ |
| | 8L1A5VU1 | New | | | |
| DIRECT LABOR | 91.1 | 93.3 | | | 184.4 |
| PERS. BENEFITS | 13.7 | 14.0 | | | 27.7 |
| TRAVEL | 2.0 | 2.5 | | | 4.5 |
| TRANSPORTATION | 0 | 0 | | | 0.0 |
| RENT,COMM.,UTIL. | 4.0 | 0 | | | 4.0 |
| PRINT/REPROD. | 0 | 0 | | | 0.0 |
| CONTRACTS | 0 | 4.5 | | | 4.5 |
| SUPPLIES/MATERIAL | 9.0 | 6.0 | | | 15.0 |
| EQUIPMENT | 0 | 0 | | | 0 |
| GRANTS | 0 | 0 | | | 0 |
| TOTALS -> | 119.8 | 120.3 | | | 240.1 |
| FTE (FTP) | 3.0 | 2.5 | | | 5.5 |
| FTE (OTFTP) | .5 | .5 | | | 1.0 |

| VESSELS # SEA DAYS ALLOC. | |
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| NOAA | CHARTERS |
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| # FREE DAYS | |
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CROSS REFERENCES

EXECUTIVE SUMMARY

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| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Bio. Assess. Program-Trends | SWC-La Jolla | 6.5 | 240.1 | Andrew Dizon | Resource Information |

A. PROBLEM STATEMENT/OBJECTIVE: The primary objective of this program is to use trends in various life history parameters to determine if these stocks are increasing or not. The work is focused primarily on ETP dolphins and harbor porpoise and harbor seal populations off the cost of California.

B. METHODOLOGY/APPROACH: Specifically, this year we are studying how sex ratios and other reproductive and physiological parameters respond to various levels of fishing pressure, population size, or forage density in the eastern tropical Pacific populations. Harbor porpoise reproductive parameters will also be determined. As in years past, we will process, curate, and archive dolphin life history data and specimens. Our estimates of reproductive rates and other vital rates; of indexes that reflect fishing pressure, denisity, or condition; and of stock structures are based primarily on specimens and data collected by NMFS & IATTC technicians aboard commercial seiners.

C. PRODUCT/SERVICES: The products are used, in connection with information on population size and density, to meet the mandated requirements of the Marine Mammal protection Act concerning the gathering of information for determination of "significantly impacted" and "impacted by whom or what" as well as the providing information on trends in relative abundance of stocks that interact with fihseries to the Secretary.

D. CLIENTS: Products are used by other tasks in the Division as well as other groups in NMFS and in the industry charged or involved with management measures for ETP U.S. tuna fishery or the California coastal fisheries.

E. CONTRACTS: $3.5K - Argos satellite tracking
$1.0K - UCSD computer services

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| Hohn, Aleta | Fishery Biologist | GS/12/2 | 100 | 8L1A5VU1 |
| Miller, Ruth | Biological Technician | GS/8/8 | 100 | 8L1A5VU1 |
| Chivers, Susan | Fishery Biologist | GS/9/2 | 100 | 8L1A5VU1 |
| Dizon, Andrew | Fishery Biologist | GM/13/8 | 50 | 8L1A5VU2 |
| | | | 50 | 8L1A1AFB |
| Myrick, Albert | Wildlife Biologist | GS/12/7 | 100 | 8L1A5VU2 |
| Akin, Priscilla | Fishery Biologist | GS/7/8 | 100 | 8L1A5VU2 |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | FY 89 2 | FY 89 3 | FY 89 4 | 90 1 | 90 2 | 91 1 | 91 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1A5VU1 | 1 | A | Investigate density dependent changes in life history patterns | X | X | X | X | X | M | | |
| 8L1A5VU1 | 2 | A | Investigate stock specific differences in life history | X | X | X | S | | | | |
| 8L1A5VU1 | 3 | A | Process and curate life history specimens from ETP dolphins | X | X | X | X | X | X | X | |
| 8L1A5VU1 | 4 | A | Conduct marine mammal salvage program | X | X | X | X | X | X | X | |
| 8L1A5VU1 | 5 | A | Prepare report on dolphin mortality for IWC | | | M | | | | | |
| New | 6 | M | Complete manuscript on stock structure of ETP dolphins based on mtDNA | | M | | | | | | |
| New | 7 | A | Continue to edit fishery Bulletin | X | X | X | X | | | | |
| New | 8 | A | Prepare report on stock structure of ETP dolphins based on condition index | X | X | X | D | | | | |

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RESOURCE SUMMARY

APPROVAL SIGNATURE ->

TITLE -> Fishery Dep. Assess. Program - Marine Mammals

HQ CONTACT(S) ->

TASK NAMES ->

| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
|---|---|---|---|---|---|
| | 8L1A6AW1 | 8L1A6AW2 | | | |
| DIRECT LABOR | 155.3 | 42.2 | | | 197.5 |
| PERS. BENEFITS | 21.9 | 6.3 | | | 28.2 |
| TRAVEL | 4.5 | 1.5 | | | 6.0 |
| TRANSPORTATION | 0 | 0 | | | 0.0 |
| RENT,COMM.,UTIL. | 0 | 0 | | | 0.0 |
| PRINT/REPROD. | 0 | 0 | | | 0.0 |
| CONTRACTS | 20.2 | 2.5 | | | 22.7 |
| SUPPLIES/MATERIAL | 20.6 | 1.5 | | | 22.1 |
| EQUIPMENT | 1.5 | 1.0 | | | 2.5 |
| GRANTS | 0 | 0 | | | 0.0 |
| TOTALS -> | 224.0 | 55.0 | | | 279.0 |
| FTE (FTP) | 4.0 | 1.0 | | | 5.0 |
| FTE (OTFTP) | 1.5 | 0.5 | | | 2.0 |

| VESSELS # SEA DAYS ALLOC. | |
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| NOAA | CHARTERS |
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| # FREE DAYS | |
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| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Fis.Dep.Ass.Prg.-Ecosystems | SWC-La Jolla | 7.0 | 279.0 | Steve Reilly | Resource Information |

A. PROBLEM STATEMENT/OBJECTIVE: In addition to the research vessel surveys, the SWC will be evaluating dolphin encounter rate data collected by observers aboard tuna vessels for use as an index to changes in the relative abundance of ETP dolphins. The basic approach of the program is to define and identify various attributes of the fishery, describe the environmental features that affect dolphin distribution, and examine various subsampling and stratification schemes. In FY89 the primary emphasis of the program will be to summarize the influence of environmental variability on the distribution of dolphins and to analyze TVOD for trends in dolphin abundance.

B. METHODOLOGY/APPROACH: Environmental data from CTDs, BTs, flow-through temperature/salinity, fluorescence sensors, satellite imagery, and other sources as available will be used to describe "habitat" for each of the 4 primary species of dolphins being studied. The available habitat will then be estimated each year and the relative abundance index will be adjusted by this factor. In addition, environmental data will be used to standardize encounter rate data collected by observers on tuna vessels. In addition, a model, developed to simulate the type of data observers on tuna vessels collect, will be used to test for bias and precision in estimates based in TVOD. Finally, an analysis of mortality data and factors that affect it are done in this program.

C. PRODUCT/SERVICES: The data and results will be used in combination with data from the Biology Program and from research vessels surveys (MOPS) to determine whether the relative number of dolphins in the ETP are increasing or decreasing, and if decreasing, to determine if the observed decline is at least in part related to the U.S. tuna fleet. In addition, recommendations on coverage rates for observers and on the influence of sundown sets on total mortality will be produced.

D. CLIENTS: Data will be used by SWC personnel to determine trends in the relative abundance of dolphin stocks in the ETP. Final reports will be submitted to the SWR office and will be used in developing a management program for ETP dolphins.

E. CONTRACTS: $12.7K - Bird studies - ETP.
$10.0K - UCSD computer service.

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| Reilly, Steve | Fishery Biologist | GM/13/3 | 100 | 8L1A6AW1 |
| Oliver, Charles | Fishery Biologist | GS/11/6 | 100 | 8L1A6AW1 |
| Fiedler, Paul | Oceanographer | GS/11/2 | 100 | 8L1A6AW1 |
| Lehrheimer, L. | Oceanographer | GS/7/1 | 100 | 8L1A6AW1 |
| Edwards, E. | Oper. Res. Analyst | GS/12/3 | 100 | 8L1A6AW2 |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | FY 89 2 | FY 89 3 | FY 89 4 | 90 1 | 90 2 | 91 1 | 91 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1A6AW1 | 1 | M | Complete manuscript on availability of habitat for ETP dolphins | | | | S | | | | |
| 8L1A6AW1 | 2 | A | Curate and Manage ETP oceanographic data from MOPS cruises | | | X | X | | | | |
| 8L1A6AW1 | 3 | A | Coordinate ancillary research on MOPS cruises | X | X | | | X | X | | |
| 8L1A6AW1 | 4 | A | Conduct at-sea studies on dolphin distribution in ETP | X | X | X | X | X | M | | |
| 8L1A6AW2 | 5 | M | Complete report on TOPS model-evaluation of specific methodology using TVOD | | | J | | | | | |
| 8L1A6AW2 | 6 | E | Complete report on effects on bias and precision in estimating mortality by varying observer coverage. | | F | | | | | | |
| 8L1A6AW2 | 7 | E | Complete report on number of seriously injured dolphins that are released to in the process of purse seining for tuna | | F | | | | | | |
| 8L1A6AW2 | 8 | A | Conduct research on trends in relative abundance of dolphins based on TVOD | X | X | X | X | X | X | X | X |
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> [signature] TITLE -> Coastal Marine Mammals

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | ∨ |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1<br>8L1A5VR1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| DIRECT LABOR | 57.7 | | | | 57.07 |
| PERS. BENEFITS | 8.0 | | | | 8.0 |
| TRAVEL | 4.2 | | | | 4.2 |
| TRANSPORTATION | 5.0 | | | | 5.0 |
| RENT,COMM.,UTIL. | 0 | | | | 0 |
| PRINT/REPROD. | 0 | | | | 0 |
| CONTRACTS | 31.5 | | | | 31.5 |
| SUPPLIES/MATERIAL | 7.5 | | | | 7.5 |
| EQUIPMENT | 4.5 | | | | 4.5 |
| GRANTS | 0 | | | | 0 |
| TOTALS -> | 118.3 | | | | 118.3 |
| FTE (FTP) | 2.0 | | | | 2.0 |
| FTE (OTFTP) | 0 | | | | 0 |

| VESSELS<br># SEA DAYS ALLOC. | |
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| NOAA | CHARTERS |
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| # FREE DAYS | |
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CROSS REFERENCES

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| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Coastal Marine Mammals | SWC-La Jolla | 2.0 | 118.3 | Peter Boveng | Resource Information |

A. PROBLEM STATEMENT/OBJECTIVE: This task investigates changes in coastal marine mammal populations associated with human activities (e.g. research, commercial fisheries, etc.). The task provides information so that the status of stocks of certain species can be determined, allowing NMFS to fulfill requirements under the Marine Mammal Protection Act.

B. METHODOLOGIES/APPROACH: During FY89 this taks is to census California sea lion and elephant seal rookeries, investigate pup production and food habits, update status of stock reports for California harbor porpoise, sea lions, elephant seals, and harbor seals, and conduct studies on movement patterns and exchange rates in harbor porpoise and harbor seal populations to assess stock discreteness.

C. PRODUCT/SERVICES: The information produced by this task will primarily be used by NMFS management personnel to 1) develop actions to protect stocks of California marine mammals from unnecessary fishery mortality; 2) determine allowable take for display purposes; and 3) evaluate the effects of incidental take of marine mammals by coastal fisheries on the health of overall ecosystems.

D. CLIENTS: Products provided by this task are used by NMFS offices charged with drafting measures to control the take of coastal marine mammals.

E. CONTRACTS:

1) CDF& G 25.0K - Aerial survey of harbor porpoise
2) Private 2.5K - Flight time for surveys of Channel Islands
3) Private 1.5K - Film processing
4) UCSD 2.5K - Computer Services

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| Boveng, Peter | Operation Res. Analyst | GS/11/2 | 100 | 8L1A5VR1 |
| Lowry, Mark | Fishery Biologist | GS/9/3 | 100 | 8L1A5VR1 |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | FY 89 2 | FY 89 3 | FY 89 4 | 90 1 | 90 2 | 91 1 | 91 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1A5VR1 | 1 | E | Assist California Department of Fish and Game in the censusing of harbor porpoise in California | X | | | | | | | |
| 8L1A5VR1 | 2 | A | Census and assist in the censusing of sea lion and elephant seal pups in California | | X | X | | | | | |
| 8L1A5VR1 | 3 | A | Update status of stock reports on pinnipeds and harbor porpoise | X | X | X | X | | | | |
| 8L1A5VR1 | 4 | M | Prepare report on 1988 harbor porpoise survey | | | A | | | | | |
| 8L1A5VR1 | 5 | E | Conduct research on movement patterns of harbor seals with telemetry | X | X | X | X | | | | |
| | | | | | | | | | | | |
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr

TITLE -> Antarctic Ecosystem Research

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | ∨ |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1<br>8L1A6H01 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| DIRECT LABOR | 134.0 | | | | 134.0 |
| PERS. BENEFITS | 24.0 | | | | 24.0 |
| TRAVEL | 96.0 | | | | 96.0 |
| TRANSPORTATION | 20.0 | | | | 20.0 |
| RENT,COMM.,UTIL. | 30.0 | | | | 30.0 |
| PRINT/REPROD. | | | | | |
| CONTRACTS | 213.0 | | | | 213.0 |
| SUPPLIES/MATERIAL | 25.0 | | | | 25.0 |
| EQUIPMENT | 50.0 | | | | 50.0 |
| GRANTS | 291.0 | | | | 291.0 |
| OTHER | 417.0 | | | | 417.0 |
| TOTALS -> | 1300.0 | | | | 1300.0 |
| FTE (FTP) | 4.5 | | | | 4.5 |

| VESSELS<br># SEA DAYS ALLOC. | |
|---|---|
| 115 | |
| NOAA | CHARTERS |
| 115 | |
| # FREE DAYS | |
| | |

CROSS REFERENCES

CURRENT YEAR OPERATING PLAN

EXECUTIVE SUMMARY

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| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Antarctic Ecosystem Research | La Jolla, CA | 6 | 1300 | I. Barrett | Resource Information |

A. PROBLEM STATEMENT/OBJECTIVE: This task advises the U. S. delegation to the Convention for the Conservation of Antarctic Marine Living Resources (CCAMLR) as to the abundance and productivity of Antarctic fishes, krill and their predators.

B. METHODOLOGY/APPROACH: The NOAA ship Surveyor will make a 4-month cruise to the Antarctic during the 1988/89 field season. A krill survey will be conducted in the Bransfield Strait Area and a pre-recuit survey for fish at South Georgia. A shore camp will also be established to determine vital roles for pinniped and bird populations.

C. PRODUCT/SERVICES: Products include reports of field activities, draft position papers, research reports, and program planning documents.

D. CLIENTS: U. S. Delegation to CCAMLR

E. CONTRACTS:

| | | |
|---|---|---|
| Texas A&M Univ. (J. Wormuth) | $50K | Direct krill sampling |
| Moss Landing Mar. Lab. (V. Loeb) | 63K | Ichthyoplankton sampling |
| Univ. of Washington (M. Macaulay) | 44K | Acoustic krill survey |
| Scripps Inst. Oceanography (M. Huntley) | 36K | Krill growth experiments |
| Univ. of Rhode Island (J. McKenna) | 20K | Pre-recruit survey |

CURRENT YEAR OPERATING PLAN

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| 1. Vacant | Fishery Biologist (Research Admin) | GM-15 | 75% | 8L1A6H01 |
| 2. Vacant | Fishery Biologist (Research Admin) | GM-14 | " | " |
| 3. Vacant | Fishery Biologist (Research) | GS-12 | " | " |
| 4. Vacant | Secretary | GS-5/6 | " | " |
| 5. Vacant | Technician | GS-5 | " | " |
| 6. Vacant | Technician | GS-5 | " | " |
| R. Hewitt | Commander, NOAA Corps | 0-5 | 100% | N/C |

CURRENT YEAR OPERATING PLAN

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L1A6H01 | 1 | A | Conduct planning for 1988/89 field season design operations plan, solicit proposals, award contracts, arrange logistic support | O | M | | | | | | |
| | 2 | E | Cruise Announcement and Operations Plan | O | | | | | | | |
| | 3 | A | Conduct field operations | N | | A | | | | | |
| | 4 | A | Attend CCAMLR meetings | O | | | | | | | |
| | 5 | E | Cruise report | | | M | | | | | |
| | 6 | E | Research reports from contractors | | | | S | | | | |
| | 7 | A | Planning session | | | A | | | | | |
| | 8 | E | Antarctic Ecosystem Research Plan | | | M | | | | | |
| | | | | | | | | | | | |
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NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

| DATE | 11 OCT 1988 | |
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr    TITLE -> HONOLULU LABORATORY ADMINISTRATION

HQ CONTACT(S) ->

| TASK NAMES -> | D.O. OFFICE | ADMIN. | | | |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 9WGN40H1 | 9WGN40H2 | | | |
| DIRECT LABOR | $ 84.0 | $148.8 | | | $232.8 |
| PERS. BENEFITS | 10.0 | 18.9 | | | 28.9 |
| TRAVEL | 9.0 | 1.5 | | | 10.5 |
| TRANSPORTATION | 1.0 | 15.5 | | | 16.5 |
| RENT,COMM.,UTIL. | 0.0 | 51.2 | | | 51.2 |
| PRINT/REPROD. | 1.0 | 0.0 | | | 1.0 |
| CONTRACTS | 0.0 | 26.5 | | | 26.5 |
| SUPPLIES/MATERIAL | 4.4 | 12.2 | | | 16.6 |
| EQUIPMENT | 4.6 | 0.8 | | | 5.4 |
| GRANTS | 0.0 | 0.7 | | | 0.7 |
| TOTALS -> | $114.0 | $276.1 | | | $390.1 |
| FTE (FTP) | 1.8 | 6.0 | | | 7.8 |
| FTE (OTFTP) | 0.0 | 0.0 | | | 0.0 |

| VESSELS # SEA DAYS ALLOC. | |
|---|---|
| | |
| NOAA | CHARTERS |
| | |
| # FREE DAYS | |
| | |

CROSS REFERENCES

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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| HONOLULU LABORATORY ADMIN. | HON. LAB. | 7. 8 | 390. 1 | G. BOEHLERT | MANAGEMENT FUND |

A. PROBLEM STATEMENT/OBJECTIVE: TO PROVIDE OVERALL MANAGEMENT AND ADMINISTRATION OF BOTH HUMAN AND FISCAL RESOURCES FOR THE HONOLULU LABORATORY.

B. METHODOLOGY/APPROACH: PROVIDE GUIDANCE FOR OVERALL OPERATIONS AND SCIENTIFIC PROGRAM OF HONOLULU LABORATORY. MAINTAIN AND IMPROVE INTERNAL CONTROLS AND STREAMLINE OPERATING PROCEDURES

C. PRODUCT/SERVICES: PROVIDE EFFICIENT DAY-TO-DAY ADMINISTRATION OF THE HONOLULU LABORATORY IN AREAS OF PROCUREMENT, PERSONNEL AND FACILITY MAINTENANCE; FLOW OF INFORMATION/PRODUCTS TO OUTSIDE AGENCIES AND THE PUBLIC.

D. CLIENTS: SOUTHWEST REGION, WESTERN PACIFIC REGIONAL FISHERIES MANAGEMENT COUNCIL, FISHING INDUSTRY, GENERAL PUBLIC.

E. CONTRACTS:
CONTRACTING OF JANITORIAL AND GROUND MAINTENANCE IS REQUIRED FOR THE HEALTH AND SAFETY OF OUR STAFF.

CURRENT YEAR OPERATING PLAN

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| FTP: | | | | |
| 1. BOEHLERT, GEORGE W. | DIRECTOR | GM/15 | 75 | 9WGN40H1 |
| 2. YUKIHIRO, CAROL | SECRETARY/STENO | GS/7/10 | 100 | 9WGN40H1 |
| 3. RAMIA, JANA L. | EDITORIAL CLERK | GS/4/02 | 100 | 9WGN40H2 |
| 4. YEE, KARENA | ADMINISTRATIVE OFFICER | GS/11/01 | 100 | 9WGN40H2 |
| 5. ARAKAWA, JOSEPH | BUDGET ANALYST | GS/7/10 | 100 | 9WGN40H2 |
| 6. DUTRO, MELVIN | MAINT. MECHANIC | WG/7/02 | 100 | 9WGN40H2 |
| 7. DRAKE, MARYLOU | ADM. SUPPORT CLERK | GS/5/10 | 100 | 9WGN40H2 |
| 8. SCHULZ, JOSEPH | TRAVEL CLERK | GS/4/02 | 100 | 9WGN40H2 |

CURRENT YEAR OPERATING PLAN

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | 2 | 3 | 4 | 90 1 | 2 | 91 1 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9WGN40H2 | 1 | A | PROCURE ALL JANITORIAL AND GROUND MAINT. SERVICES FOR LABORATORY | O | | | | | | | |
| 9WGN40H1 | 2 | A | OVERSEE LABORATORY OPERATION, INCLUDING FACILITIES. | O | - | - | - | - | - | - | S |
| | 3 | A | PROVIDE GUIDANCE FOR OVERALL SCIENTIFIC PROGRAM. | O | - | - | - | - | - | - | S |
| | 4 | A | SERVE AS FOCUS FOR COMMUNICATION OF HONOLULU LABORATORY SCIENTIFIC PROGRAMS WITH OUTSIDE AGENCIES AND THE PUBLIC. | O | - | - | - | - | - | - | S |
| | 5 | A | ALLOCATE FUNDING AND PERSONNEL TO ACHIEVE OVERALL LABORATORY GOALS | O | - | - | - | - | - | - | S |
| | 6 | A | SERVE AS HABITAT RESEARCH COORDINATOR FOR HONOLULU LABORATORY | O | - | - | - | - | - | - | S |
| | | | | | | | | | | | |
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NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr    TITLE -> DATA MANAGEMENT AND TECHNICAL SERVICE

HQ CONTACT(S) ->

| TASK NAMES -> | ADP | PUBLICATION | LIBRARY | | \/ |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 8L1C1AJ1 | 8L1C1AJ2 | 8LIC1AJ4 | | |
| DIRECT LABOR | 204.1 | 139.2 | 43.2 | | 386.5 |
| PERS. BENEFITS | 24.8 | 17.0 | 5.3 | | 47.1 |
| TRAVEL | .8 | 0 | 0 | | .8 |
| TRANSPORTATION | .5 | 0 | 0 | | .5 |
| RENT, COMM., UTIL. | 37.7 | 0 | 0 | | 37.7 |
| PRINT/REPROD. | 0 | .5 | 0 | | .5 |
| CONTRACTS | 8.0 | 8.0 | 2.7 | | 18.7 |
| SUPPLIES/MATERIAL | 21.5 | 5.0 | 13.8 | | 40.3 |
| EQUIPMENT | 17.1 | 0 | 0 | | 17.1 |
| GRANTS | 0 | 0 | 0 | | 0 |
| TOTALS -> | 314.5 | 169.7 | 65.0 | | 549.2 |
| FTE (FTP) | 5.8 | 4.0 | 1.0 | | 10.8 |
| FTE (OTFTP) | 2.4 | 1.4 | .4 | | 4.2 |

| VESSELS # SEA DAYS ALLOC. | |
|---|---|
| 0 | |
| NOAA | CHARTERS |
| 0 | 0 |
| # FREE DAYS | |
| 0 | |

CROSS REFERENCES

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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| DATA MANAGEMENT & TECH SVC. | HONOLULU | 15 | 549.2 | D. TIEMAN | RESOURCE INFORMATION |

A. PROBLEM STATEMENT/OBJECTIVE: DMTS PROVIDES FOR THE DATA ENTRY, VERIFICATION, EDITING, MAINTENANCE, SECURITY, AND DOCUMENTATION OF GATHERED DATA; INSTALLATION OF HARDWARE AND SOFTWARE, SYSTEM PROGRAMMING, CONSULTATION ON ADP, COORDINATION AND CONSOLIDATION OF ADP PURCHASES; PROVIDES SCIENTIFIC MANUSCRIPT REVIEWS, TEXT PREPARATION SERVICES, SCIENTIFIC ILLUSTRATIONS, AND GRAPHICS SERVICES IN SUPPORT OF THE SCIENTIFIC MISSION OF THE HONOLULU LAB.

B. METHODOLOGY/APPROACH: INSTALLATION OF A LOCAL AREA NETWORK (LAN) AND THE CONTINUED PHASING OUT OF OUTDATED HARDWARE AND SOFTWARE. UPGRADES OF SERVERAL DOS SYSTEMS ARE PLANNED DEPENDING ON EVALUATION OF EXISTING CAPABILITIES, NEEDS OF THE STAFF, AND AVAILABLE FUNDING.

C. PRODUCT/SERVICES: PRODUCTS ARE PROVIDED IN THE FORM OF TYPED MANUSCRIPTS, CORRESPONDENCE, CURRENT SCIENTIFIC AND COMPUTER REFERENCE MATERIALS, HARD COPY AND COMPUTER DATA, INFORMATION, COMPUTER MAINTENANCE, AND COMPUTER SUPPLIES. CONSULTATION SERVICES ARE PROVIDED IN RELATED FIELDS.

D. CLIENTS: PRODUCTS AND SERVICES ARE USED BY ALL PERSONNEL ASSIGNED TO THE HONOLULU LABORATORY.

E. CONTRACTS: CONTRACTS FOR COMPUTER SUPPORT FROM THE UNIVERSITY OF HAWAII, BOOK BINDING, AND TRANSLATIONS WILL CONTINUE TO BE REQUIRED.

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| FTP: | | | | |
| 1. TIEMAN, DONALD R. | SUPV. COMP. SYSTEM ANALYST | GS/12/01 | 100 | 8L1C1AJ1 |
| 2. KUBA, SALLY H. | COMPUTER PROGRAMMER | GS/09/05 | 100 | 8L1C1AJ1 |
| 3. TAGAMI, DARRYL T. | OPERATIONS RESEARCH ANALYST | GS/09/01 | 100 | 8L1C1AJ1 |
| 4. HIGUCHI, WAYDE S. | COMPUTER PROGRAMMER | GS/07/01 | 100 | 8L1C1AJ1 |
| 5. PAPPAS, JANET L. | COMPUTER PROGRAMMER | GS/07/01 | 75 | 8L1C1AJ1 |
| 6. TSUKANO, LUCILLE T. | COMPUTER AID | GS/06/10 | 100 | 8L1C1AJ1 |
| 7. WILLIAMS, LESLIE, C. | TECH. PUB. WRITER/EDITOR | GS/9/03 | 100 | 8L1C1AJ2 |
| 8. YOUNG, ELIZABETH F. | EDITORIAL ASSISTANT | GS/7/09 | 100 | 8L1C1AJ2 |
| 9. WEBER, THOMAS W. | SCIENTIFIC ILLUSTRATOR | GS/7/03 | 100 | 8L1C1AJ2 |
| 10. LEMBECK, LOUISE, F. | EDITORIAL CLERK | GS/5/10 | 100 | 8L1C1AJ2 |
| 11. NISHIMURA, HAZEL S. | LIBRARIAN | GS/11/08 | 100 | 8L1C1AJ4 |
| PTP: | | | | |
| 1. ISHIDA, VIRGINIA L. | EDITORIAL CLERK | GS/5/09 | 88 | 8L1C1AJ2 |
| TEMPORARIES: | | | | |
| 1. MIYAMOTO, BRENT M. | COMPUTER ASSISTANT | GS/05/01 | 30 | 8L1C1AJ1 |
| 2. VACANT (VICE HAYS) | COMPUTER PROGRAMMER | GS/05/01 | 96 | 8L1C1AJ1 |
| 3. MASADA, STEFFINY M. | DATA TRANSCRIBER | GS/01/01 | 40 | 8L1C1AJ1 |
| 4. YANAGI, DORIS M. | DATA TRANSCRIBER | GS/01/01 | 40 | 8L1C1AJ1 |
| 5. RHODEN, GAIL S. | CLERK TYPIST | GS/4/01 | 50 | 8L1C1AJ2 |
| 6. VACANT | LIBRARY TECHNICIAN | GS/1/01 | 40 | 8L1C1AJ4 |

CURRENT YEAR OPERATING PLAN

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | 2 | 3 | 4 | 90 1 | 2 | 91 1 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1C1AJ1 | 1 | A | CAPTURE, EDIT, AND MAINTAIN COMPUTER PROCESSABLE DATA | O | - | - | - | - | - | - | S |
| 8L1C1AJ1 | 2 | A | EVALUATE, PURCHASE, INSTALL APPLICATION SOFTWARE PACKAGES, SYSTEM HARDWARE, COMPONENTS AND PERIPHERALS. | O | - | - | - | - | - | - | S |
| 8L1C1AJ1 | 3 | A | DESIGN, PROGRAM, TEST, INSTALL, AND OPERATE INHOUSE ADP SYSTEMS. | O | - | - | - | - | - | - | S |
| 8L1C1AJ1 | 4 | A | PROVIDE CONSULTATION, ASSISTANCE, AND TRAINING ON ADP RELATED ISSUES. | O | - | - | - | - | - | - | S |
| 8L1C1AJ2 | 5 | A | PROVIDE MANUSCRIPT AND OTHER TEXT PREPARATION AND PROCESSING SERVICES. | O | - | - | - | - | - | - | S |
| 8L1C1AJ2 | 6 | A | PROVIDES SCIENTIFIC AND GRAPHIC ILLUSTRATION SERVICES. | O | - | - | - | - | - | - | S |
| 8L1C1AJ3 | 7 | A | PROVIDES SCIENTIFIC LIBRARY REFERENCE SERVICES. | O | - | - | - | - | - | - | S |
| | | | | | | | | | | | |
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NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

| DATE | 11 OCT. 1988 | |
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr    TITLE -> FISHERY OCEANOGRAPHY PROGRAM

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | \/ |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1<br>8L1A7A00 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| DIRECT LABOR | 116.7 | | | | 116.7 |
| PERS. BENEFITS | 13.8 | | | | 13.8 |
| TRAVEL | 3.2 | | | | 3.2 |
| TRANSPORTATION | 1.0 | | | | 1.0 |
| RENT,COMM.,UTIL. | 0 | | | | 0 |
| PRINT/REPROD. | 1.2 | | | | 1.2 |
| CONTRACTS | 0 | | | | 0 |
| SUPPLIES/MATERIAL | 12.0 | | | | 12.0 |
| EQUIPMENT | 4.5 | | | | 4.5 |
| GRANTS | 10.0 | | | | 10.0 |
| TOTALS -> | 162.4 | | | | 162.4 |
| FTE (FTP) | 2.3 | | | | 2.3 |
| FTE (OTFTP) | 1.6 | | | | 1.6 |

| VESSELS<br># SEA DAYS ALLOC. | |
|---|---|
| 11 | |
| NOAA | CHARTERS |
| 11 | |
| # FREE DAYS | |
| | |

CROSS REFERENCES

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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| FISHERY OCEANOGRAPHY RES. | HON. LAB. | 3.9 | 162.4 | G. BOEHLERT | RESOURCE INFORMATION |

A. PROBLEM STATEMENT/OBJECTIVE: TROPICAL ECOSYSTEMS ARE CHARACTERIZED BY RESOURCES WITH RELATIVELY LOW STANDING STOCK AND HIGH VULNERABILITY TO OVEREXPLOITATION. THE FISHERY OCEANOGRAPHY RESEARCH PROGRAM CONDUCTS RESEARCH ON THE ECOLOGY OF FISH AND SHELLFISH RESOURCES OF ISLAND-ASSOCIATED ECOSYSTEMS TO BETTER UNDERSTAND THE EFFECTS OF THE OCEAN ENVIRONMENT ON VARIABILITY IN THESE RESOURCES.

B. METHODOLOGY/APPROACH: THIS PROGRAM IS NEW FOR FY89. WE WILL DEVELOP STUDIES OF RECRUITMENT MECHANISMS AND VARIABILITY IN INSULAR RESOURCES RELATIVE TO OCEANOGRAPHY WITH GREATER EMPHASIS ON VARIABILITY IN PHYSICAL OCEANOGRAPHY. ADDITIONAL STUDIES WILL i) TEST SAMPLING GEAR FOR RESEARCH ON LATE LARVAL AND JUVENILE STAGES TO BETTER DESCRIBE THE HABITAT FOR ALL LIFE HISTORY STAGES AND ii) COMPLETE COOPERATIVE STUDIES OF WEST COAST GROUNDFISH.

C. PRODUCT/SERVICES: OUTPUT PRODUCTS FROM THIS TASK INCLUDE INFORMATION ON ECOLOGICAL ASSOCIATIONS OF DIFFERENT ISLAND SPECIES AND PROVIDE BASIC DATA USED FOR ECOSYSTEM MODELS, FISHERY MANAGEMENT PLANS, AND ENVIRONMENTAL IMPACT STATEMENT.

D. CLIENTS: RESULTS OF THE RESEARCH, IN THE FORM OF DATA AND ANALYSIS, WILL BE USED BY OTHER RESEARCH TASKS, THE NMFS SOUTHWEST REGION, THE WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL, THE FISHING INDUSTRY, CONVERVATION GROUPS, PRIVATE CONSULTANTS AND CONTRACTORS, AND STATE OF HAWAII AGENCIES. COOPERATION IN STUDIES OF RECRUITMENT WILL ALSO BENEFIT INTERNATIONAL AGENCIES WITH CURRENT PROGRAMS IN TROPICAL REGIONS.

E. CONTRACTS:
NONE

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| FTP: | | | | |
| 1. BOEHLERT, GEORGE W. | FISHERY BIOLOGIST RESEARCH | GM/15 | 25 | NEW |
| 2. MUNDY, BRUCE C. | FISHERY BIOLOGIST RESEARCH | GS/9/02 | 100 | NEW |
| 3. VACANT | OCEANOGRAPHER | GS/11/01 | 100 | NEW |
| PTP: | | | | |
| 1. FUJISAWA, CAROL | BIOLOGICAL AID | GS/4/02 | 100 | NEW |
| TEMPORARIES: | | | | |
| 1. WILSON, CHRISTOPHER D. | FISHERY BIOLOGIST | GS/6/01 | 63 | NEW |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | 2 | 3 | 4 | 90 1 | 2 | 91 1 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NEW | 1 | E | COMPLETE STUDY OF VERTICAL DISTRIBUTION OF ICHTHYOPLANKTON OFF OAHU | | | | | J | | | |
| | 2 | E | COMPLETE STUDY OF VERTICAL DISTRIBUTION OF ZOOPLANKTON AROUND OAHU (NRC FELLOW PROJECT) | | | A | | | | | |
| | 3 | M | PUBLISH MANUSCRIPT ON HORIZONTAL DISTRIBUTION OF LARVAL FISHES FISHES AROUND JOHNSTON ISLAND. | | M | | | | | | |
| | 4 | A | INITIATE FIELD STUDIES ON POSTLARVAL FISH DISTRIBUTION AROUND ISLANDS RELATIVE TO OCEANOGRAPHY. | | | | | J | | | |
| | 5 | A | COLLABORATE WITH JIMAR AND UNIVERSITY OF HAWAII TO ESTABLISH ENVIRONMENTAL DATA BASES. | | | M | | | | | |
| | 6 | A | INITIATE STUDY OF INTERCHANGE BETWEEN PELAGIC AND INSULAR ECO-SYSTEMS THROUGH TROPHIC ANALYSIS. | | | | | F | | | |
| | 7 | E | SUPPORT COMPARATIVE STUDY OF ACOUSTIC DOPPLER CURRENT PROFILER WITH GEK AND CURRENT METERS. | | M | | | | | | |
| | 8 | M | CONVENE WORKSHOP ON REPRODUCTION AND EARLY LIFE HISTORY OF SEBASTES (PENDING FUNDING); EDIT RESULTING VOLUME OF PAPERS | | M | | | | | | |
| | 9 | A | CONTRIBUTE TO PROPOSAL ON SATELLITE APPLICATIONS TO FISHERIES OCEANOGRAPHY; INITIATE PROGRAM IF FUNDED. | | J | - | - | - | - | - | S |
| | | | | | | | | | | | |
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FORM 1

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

| DATE | 11 Oct. 1988 | |
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr    TITLE -> PELAGIC STOCK ASSESSMENT PROGRAM

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | \/ |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1<br>8L1C5AC0 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| DIRECT LABOR | 136.3 | | | | 136.3 |
| PERS. BENEFITS | 16.8 | | | | 16.8 |
| TRAVEL | 3.0 | | | | 3.0 |
| TRANSPORTATION | 0 | | | | 0 |
| RENT,COMM.,UTIL. | 0 | | | | 0 |
| PRINT/REPROD. | 0 | | | | 0 |
| CONTRACTS | 0 | | | | 0 |
| SUPPLIES/MATERIAL | 2.9 | | | | 2.9 |
| EQUIPMENT | 4.0 | | | | 4.0 |
| GRANTS | 0 | | | | 0 |
| TOTALS -> | 163.0 | | | | 163.0 |
| FTE (FTP) | 2.0 | | | | 2.0 |
| FTE (OTFTP) | 1.0 | | | | 1.0 |

| VESSELS # SEA DAYS ALLOC. | |
|---|---|
| 30 | |
| NOAA | CHARTERS |
| 30 | 0 |
| # FREE DAYS | |
| 0 | |

CROSS REFERENCES

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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| PELAGIC STOCK ASSESSMENT | HONOLULU | 3.0 | 163.0 | J. WETHERALL | RESOURCE INFORMATION |

A. PROBLEM STATEMENT/OBJECTIVE: IN THE N. PACIFIC NMFS IS CONCERNED WITH PROBLEMS OF INCIDENTAL MORTALITY TO STOCKS OF TUNA, BILLFISH, SALMON, MARINE MAMMALS, TURTLES, AND SEABIRDS CAUSED BY DRIFT GILLNETS. OUR OBJECTIVE IS TO ASSESS TUNA AND BILLFISH STOCKS AND ESTIMATE DRIFTNET IMPACTS. IN THE S. PACIFIC OUR OBJECTIVE IS TO ASSESS THE S. PACIFIC ALBACORE STOCK AND EVALUATE INTERACTIONS BETWEEN THE U.S. TROLL FISHING AND FOREIGN LONGLINE AND DRIFTNET FISHERIES.

B. METHODOLOGY/APPROACH: IN NORTH PACIFIC, DATA ON INCIDENTAL CATCH ARE COLLECTED BY NEGOTIATIONS WITH DRIFTNET NATIONS AND PLACEMENT OF U.S. OBSERVERS ON FOREIGN DRIFTNET VESSELS; BY RESEARCH VESSEL SURVEYS AND OTHER MEANS. IN THE SOUTH PACIFIC CATCH AND EFFORT DATA AND BIOLOGICAL STATISTICS COLLECTED BY PORT SAMPLING AND INTERNATIONAL COLLABORATION. INTERACTIONS ARE ESTIMATED BY NUMERICAL MODELING AND MARK-RECAPTURE EXPERIMENTS.

C. PRODUCT/SERVICES:
1. REPORT ON IMPACTS OF SQUID DRIFTNET FISHERY ON NORTH PACIFIC ALBACORE.
2. REPORT ON STATUS OF SOUTH PACIFIC ALBACORE FISHERIES.
3. MANUSCRIPT ON GREEN SEA TURTLE POPULATION DYNAMICS.

D. CLIENTS: INFORMATION IS PRODUCED FOR USE BY NMFS NEGOTIATORS AT BILATERAL FISHERY MEETINGS BETWEEN U.S. AND DRIFTNETTING NATIONS. OTHER CLIENTS ARE U.S. ALBACORE FISHING INDUSTRY, COLLABORATING FISHERY SCIENTISTS AND AGENCIES IN ASIA AND SOUTH PACIFIC, AND THE GENERAL PUBLIC.

E. CONTRACTS: NONE.

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| FTP: | | | | |
| 1. WETHERALL, JERRY A. | SUPERVISORY FISHERY BIOLOGIST | GM/14 | 100 | 8L1C5AC0 |
| 2. YONG, MARIAN Y. Y. | MATHEMATICIAN | GS/11/09 | 100 | 8L1C5AC0 |
| TEMPORARIES: | | | | |
| 1. YANO, SHIGERU | RES. LAB. MECHANIC | WG/5/02 | 100 | 8L1C5AC0 |

FORM 4

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L1C5AC0 | 1 | A | COLLABORATES WITH NWAFC ON NORTH PACIFIC SQUID DRIFTNET ADVISORY COMMITTEE. | O | - | - | - | - | - | - | S |
| | 2 | M | COMPLETE REPORT ON IMPACTS OF SQUID DRIFTNETS ON NORTH PACIFIC ALBACORE. | D | | | | | | | |
| | 3 | M | COMPLETE REPORT ON NORTH PACIFIC SQUID DRIFTNET STRATEGIES RESEARCH PLAN. | D | | | | | | | |
| | 4 | E | COMPLETE NOAA TECHNICAL REPORT ON NORTH PACIFIC TRANSITION ZONE OCEANOGRAPHY AND BIOLOGY. | | | J | | | | | |
| | 5 | A | COORDINATE NPTZ SURVEY (TC-89-06 LEG II). | O | - | - | A | | | | |
| | 6 | E | COMPLETE TC-89-06 LEG II CRUISE REPORT. | | | | | N | | | |
| | 7 | A | COORDINATE SOUTH PACIFIC ALBACORE FISHERY MONITORING ACTIVITIES. | O | - | - | - | - | - | - | S |
| | 8 | M | COMPLETE SOUTH PACIFIC ALBACORE FISHERY INFORMATION DOCUMENT. | | F | | | | | | |
| | 9 | E | PARTICIPATE IN 2ND SOUTH PACIFIC ALBACORE RESEARCH (SPAR) WORKSHOP, SUVA, FIJI. | | | M | | | | | |
| | 10 | A | PROVIDE ANALYTICAL SUPPORT TO HAWAIIAN SEA TURTLE RECOVERY TEAM. | O | - | - | - | - | - | - | S |
| | 11 | E | COMPLETE MANUSCRIPT ON NUMERICAL MODELS FOR GREEN SEA TURTLE POPULATION DYNAMICS. | | | | S | | | | |

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

| DATE | | 13 OCT. 1988 |
|---|---|---|
| FMC | REF. NO. | PAGE |
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr | TITLE -> PELAGIC ECOSYSTEM PROGRAM

HQ CONTACT(S) ->

| TASK NAMES -> | PEL. ECOS. | | | | \/ |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 8L1A6AK0 | | | | |
| DIRECT LABOR | 153.4 | | | | 153.4 |
| PERS. BENEFITS | 18.0 | | | | 18.0 |
| TRAVEL | 4.0 | | | | 4.0 |
| TRANSPORTATION | 0 | | | | 0 |
| RENT, COMM., UTIL. | 0.8 | | | | 0.8 |
| PRINT/REPROD. | 0 | | | | 0 |
| CONTRACTS | 0 | | | | 0 |
| SUPPLIES/MATERIAL | 19.0 | | | | 19.0 |
| EQUIPMENT | 10.3 | | | | 10.3 |
| GRANTS | 0 | | | | 0 |
| TOTALS -> | 205.5 | | | | 205.5 |
| FTE (FTP) | 3.0 | | | | 3.0 |
| FTE (OTFTP) | 1.0 | | | | 1.0 |

| VESSELS # SEA DAYS ALLOC. | |
|---|---|
| 21 | |
| NOAA | CHARTERS |
| 21 | 0 |
| # FREE DAYS | |
| 0 | |

CROSS REFERENCES

FORM 2

CURRENT YEAR OPERATING PLAN

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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| PELAGIC ECOSYSTEM PROGRAM | HONOLULU | 4.0 | 205.5 | C. H. BOGGS | INFO. ANAL. AND DISSEMINATION |

A. PROBLEM STATEMENT/OBJECTIVE: TO GAIN SUFFICIENT KNOWLEDGE OF TROPICAL TUNA ECOLOGY TO PERMIT THE SCIENTIFIC ASSESSMENT OF STOCKS, FORECASTING OF YIELDS, AND DETECTION OF NEGATIVE IMPACTS NEEDED TO PROPERLY MONITOR FISHERIES IN THE CENTRAL AND WESTERN PACIFIC AND TO IMPROVE HARVEST EFFICIENCY.

B. METHODOLOGY/APPROACH: COLLECT BIOLOGICAL DATA AND OPERATIONS STATISTICS FROM TUNA FISHERIES AND COLLECT BIOLOGICAL SAMPLES FOR MODELS OF STOCK STRUCTURE AND VITAL RATES, EMPHASIZING THE FISHERIES OF HAWAII. CONDUCT EXPERIMENTS AND ASSEMBLE ENVIRONMENTAL DATA TO MODEL THE DYNAMICS OF TUNA STOCKS AND THEIR HABITAT. DESIGN A RESEARCH PROGRAM TO FURTHER DEVELOP ECOLOGICAL MODELS OF ABUNDANCE AND AVAILABILITY, AND EVALUATE THEM IN RELATION TO ACHIEVING A (ABOVE).

C. PRODUCT/SERVICES: ANNUAL FORECAST OF HAWAII SKIPJACK TUNA FISHING CONDITIONS (LEAFLET). ANNUAL HAWAII TUNA FISHERIES STATUS REPORT (ADMIN. REPORT). PUBLICATIONS ON TUNA MOVEMENTS AND AVAILABILITY IN RELATION TO ENVIRONMENTAL VARIABLES. FIVE-YEAR PLAN FOR MODELING OF TUNA HABITAT AND DISTRIBUTION DYNAMICS IN HAWAII (ADMIN. REPORT).

D. CLIENTS: NATIONAL AND LOCAL GOVERNMENT AGENCIES USE PRODUCTS IN ANALYZING TUNA FISHING POLICIES AND IN DEVELOPING MANAGEMENT PLANS FOR PELAGIC FISHERIES. STUDIES PROMOTE INTERNATIONAL COOPERATION IN RESEARCH AND MANAGEMENT. THE U.S. FISHING INDUSTRY USES PRODUCTS TO IMPROVE HARVEST EFFICIENCY AND MAKE INVESTMENT DECISIONS.

E. CONTRACTS:

FORM 3

NOAA FISHERIES

CURRENT YEAR OPERATING PLAN

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| FTP: | | | | |
| 1. BOGGS, CHRISTOFER H. | FISHERY BIOLOGIST | GS/12/01 | 100 | 8L1A6AK0 |
| 2. BRILL, RICHARD W. | FISHERY BIOLOGIST | GS/12/06 | 100 | 8L1A6AK0 |
| 3. CHANG, RANDOLPH K. | FISHERY BIOLOGIST | GS/11/08 | 100 | 8L1A6AK0 |
| TEMPORARIES: | | | | |
| 1. CHUN, ALLISON | BIOLOGICAL AID | GS/4/01 | 100 | 8L1A6AK0 |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L1A6AK0 | 1 | M | ISSUE ANNUAL STATUS REPORT ON HAWAII TUNA FISHERIES. | D | | | | | J | | J |
| | 2 | M | COMPLETE 5-YEAR RESEARCH PLAN FOR MODELING DISTRIBUTION, ABUNDANCE, BEHAVIOR, MOVEMENTS, AND HABITAT OF TUNA AROUND HAWAII. | | J | | | | | | |
| | 3 | A | FIELD STUDY OF LONGLINE CATCH RATES, VERTICAL DISTRIBUTION, AND AREA VULNERABILITY OF YELLOWFIN AND BIGEYE TUNA. | | J | | | | | | |
| | 4 | M | PUBLISH PAPER ON THE EFFECTS OF AMBIENT OXYGEN LEVELS ON THE DISTRIBUTION AND MOVEMENTS OF SKIPJACK AND YELLOWFIN TUNA. | | | M | | | | | |
| | 5 | E | ISSUE ANNUAL FORECAST OF HAWAII SKIPJACK TUNA FISHING CONDITIONS. | | | M | | | M | | M |
| | 6 | M | PUBLISH PAPER ON THE MOVEMENTS OF TUNA IN RELATION TO THE ENVIRONMENT AS DETERMINED IN TRACKING EXPERIMENTS. | | | | A | | S | | |
| | 7 | A | COLLECT MORPHOMETRIC MEASUREMENTS AND OTHER DATA (AT THE FISH AUCTION) ON YELLOWFIN AND BIGEYE TUNA FOR BIOLOGICAL MODELS. | O | - | - | - | - | - | - | S |
| | 8 | E | COMPLETE ANALYSIS OF ONE YEAR OF MORPHOMETRIC DATA ON YELLOWFIN TUNA. | | | | S | | | | |
| | 9 | M | PUBLISH PAPER ON THE VERTICAL DISTRIBUTION OF YELLOWFIN AND BIGEYE TUNA AND THE EFFECT OF HABITAT VULNERABILITY TO FISHING GEAR. | | | | | M | | | |
| | 10 | E | ISSUE FORECAST OF HAWAII YELLOWFIN AND BIGEYE TUNA FISHING CONDITIONS. | | | | | | A | | |
| | | | | | | | | | | | |

FORM 1

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

| DATE | 11 OCT. 1988 | |
|---|---|---|
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr    TITLE -> PELAGIC FMP RESEARCH PROGRAM

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | \/ |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1<br>8L1C1A00 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| DIRECT LABOR | 117.6 | | | | 117.6 |
| PERS. BENEFITS | 14.4 | | | | 14.4 |
| TRAVEL | 2.1 | | | | 2.1 |
| TRANSPORTATION | 0 | | | | 0 |
| RENT,COMM.,UTIL. | 0 | | | | 0 |
| PRINT/REPROD. | 0 | | | | 0 |
| CONTRACTS | 0 | | | | 0 |
| SUPPLIES/MATERIAL | 5.9 | | | | 5.9 |
| EQUIPMENT | 6.3 | | | | 6.3 |
| GRANTS | 0 | | | | 0 |
| TOTALS -> | 146.3 | | | | 146.3 |
| FTE (FTP) | 2.0 | | | | 2.0 |
| FTE (OTFTP) | 0.8 | | | | 0.8 |

| VESSELS<br># SEA DAYS ALLOC. | |
|---|---|
| N/A | |
| NOAA | CHARTERS |
| | |
| # FREE DAYS | |
| | |

CROSS REFERENCES

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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| PELAGIC FMP RESEARCH PROG. | HONOLULU | 2.8 | 146.3 | R. A. SKILLMAN | INFO. ANALYSIS & DISSEMINATION |

A. PROBLEM STATEMENT/OBJECTIVE: IMPROVE THE SCIENTIFIC BASIS FOR EFFECTIVE MANAGEMENT OF PELAGIC MANAGEMENT UNIT SPECIES (BILLFISHES, MAHIMAHI, WAHOO, AND SOME SHARKS) FISHERIES BY DETERMINING BASIC BIOLOGICAL PARAMETERS AND FISHERY INFORMATION, DEVELOPING FISHERY MODELS, AND PROVIDING GUIDANCE TO THE WPRFMC ACCORDINGLY.

B. METHODOLOGY/APPROACH: FISHERY DATA WILL BE COLLECTED FROM PELAGIC FISHERIES IN THE REGION, ENVIRONMENTAL DATA FROM OCEANOGRAPHIC DATA BASES WILL BE ASSEMBLED, BIOLOGICAL EXPERIMENTS WILL BE CONDUCTED AT SEA AND SHORE, AND FISH LARVA SURVEY SAMPLES COLLECTED IN FY '88 WILL BE PROCESSED. MODELS WILL BE DEVELOPED FOR AGE AND GROWTH, SIZE/COHORT COMPOSITION, MORTALITY, REPRODUCTIVE BIOLOGY AND RECRUITMENT, LARVAL DISTRIBUTION, AND STOCK HETEROGENEITY.

C. PRODUCT/SERVICES: THE PROGRAM WILL PRODUCE AND DISTRIBUTE THE FIRST ANNUAL REPORT MODULES FOR THE PELAGIC MANAGEMENT UNIT SPECIES, REPORTS ON LAST YEAR'S PELAGIC LARVAE ISLAND EFFECT SURVEYS, A PAPER ON LOBSTER ESCAPE VENT RESEARCH, A PAPER ON KOKO HEAD TEMPERATURE AND SALINITY TIME SERIES ANALYSIS, AND (PUBLISH) BILLFISH STOCK ASSESSMENT AND IDENTIFICATION PAPERS.

D. CLIENTS: THE PROGRAM SUPPORTS RESOURCE MANAGEMENT BY THE WPRFMC, CONTRIBUTES TO POLICY ANALYSIS BY NMFS, AND INFORMS THE PUBLIC ON MATTERS OF PELAGIC RESOURCE UTILIZATION AND CONSERVATION.

E. CONTRACTS:

FORM 3

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| FTP: | | | | |
| 1. ROBERT A. SKILLMAN | SUPERVISORY FISHERY BIOLOGIST RESEARCH | GM/13/00 | 100 | 8L1C2A00 |
| 2. JAMES H. UCHIYAMA | SUPERVISORY FISHERY BIOLOGIST RESEARCH | GS/11/07 | 100 | 8L1C2A00 |
| PTP: | | | | |
| 1. JEFFREY D. SAMPAGA | BIOLOGICAL TECHNICIAN | GS/5/06 | 80 | 8L1C2A00 |

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CURRENT YEAR OPERATING PLAN

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | 2 | 3 | 4 | 90 1 | 2 | 91 1 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1C2A00 | 1-A | A | EXPAND BIOLOGICAL SAMPLING/MARKET STATISTICS (AUGMENTING SWR-789). | | J | - | - | - | - | - | S |
| | 1-B | A | PROCESS MARKET DATA/SAMPLES: POPULATION PARAMETERS AND STOCK HETEROGENEITY (METHODOLOGY). | | J | - | - | - | - | - | S |
| | 1-C | E | STATUS REPORT ON STOCK MODELING. | | | | | A | | | |
| | 2-A | A | PROCESS FY88 LARVAL FISH SAMPLES AND PREPARE NARRATIVE CRUISE REPORTS. | O | - | - | S | | | | |
| | 2-B | E | PREPARE ADMINISTRATIVE REPORT DESCRIBING FINE-SCALE DISTRIBUTIONAL PATTERNS AND ISLAND EFFECTS. | | | | | F | | | |
| | 3-A | A | FRAMEWORK MODELING OF MAHIMAHI FISHERY-STRATEGIC PLANNING TOOL. | N | - | A | | | | | |
| | 3-B | E | ISSUE STRATEGIC AND OPERATIONAL RESEARCH/DATA-COLLECTION PLAN. | | | | M | | | | |
| | 4 | E | COMPLETE LOBSTER ESCAPE VENT PAPER WITH ALAN EVERSON. | | J | | | | | | |
| | 5 | M | ISSUE PELAGIC FMP ANNUAL REPORT MODULES--DRAFT AND FINAL. | O | | M | | | | | |
| | 6 | E | COMPLETE TIME SERIES ANALYSIS PAPER FOR KOKO HEAD TEMPERATURE AND SALINITY. | | | | S | | | | |
| | 7 | E | PUBLISH BILLFISH STOCK ASSESSMENT AND IDENTIFICATION PAPERS IN BILLFISH SYMPOSIUM PROCEEDINGS. | | | | J | | | | |

FORM 1

# NOAA FISHERIES
## CURRENT YEAR OPERATING PLAN

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|---|---|---|
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr    TITLE -> INSULAR STOCK ASSESSMENT

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | \/ |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1<br>8L1C5AH1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| DIRECT LABOR | 171.8 | | | | 171.8 |
| PERS. BENEFITS | 20.6 | | | | 20.6 |
| TRAVEL | 3.0 | | | | 3.0 |
| TRANSPORTATION | 0 | | | | 0 |
| RENT,COMM.,UTIL. | 0 | | | | 0 |
| PRINT/REPROD. | 0 | | | | 0 |
| CONTRACTS | 4.0 | | | | 4.0 |
| SUPPLIES/MATERIAL | 10.0 | | | | 10.0 |
| EQUIPMENT | 4.0 | | | | 4.0 |
| GRANTS | 0 | | | | 0 |
| TOTALS -> | 213.4 | | | | 213.4 |
| FTE (FTP) | 3.0 | | | | 3.0 |
| FTE (OTFTP) | 3.0 | | | | 3.0 |

| VESSELS<br># SEA DAYS ALLOC. | |
|---|---|
| 36 | |
| NOAA | CHARTERS |
| 36 | |
| # FREE DAYS | |
| | |

CROSS REFERENCES

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| INSULAR STOCK ASSESSMENT | HONOLULU | 6.0 | 213.4 | D. A. SOMERTON | INFO. ANAL. & DISSEMINATION |

A. PROBLEM STATEMENT/OBJECTIVE: THIS TASK ADDRESSES THE PROBLEM OF ASSESSING EXPLOITED INSULAR RESOURCES TO DETERMINE THEIR DEVELOPMENTAL POTENTIAL OR THE EXTENT TO WHICH THEY ARE OVERFISHED. THE ANALYSES CONDUCTED AND THE INFORMATION PRODUCED CONCERN TROPICAL SLOPE AND NEARSHORE ECOSYSTEMS WITH EMPHASIS ON BOTTOMFISH AND BAITFISH. RESEARCH RESULTS PROVIDE DECISION MAKERS WITH THE INFORMATION NECESSARY TO MANAGE THESE FISHERIES.

B. METHODOLOGY/APPROACH:
DATA ARE COLLECTED BY REGULATORY AGENCIES AND ANALYZED BY QUANTITATIVE FISHERIES MODELS TO DETECT UNDERLYING PATTERNS IN GROWTH, MORTALITY, AND COMMUNITY PRODUCTION. RESEARCH DATA ARE ALSO COLLECTED DURING SCIENTIFIC CRUISES TO DETERMINE SPATIAL AND TEMPORAL PATTERNS IN RESOURCE ABUNDANCE, TO DEVELOP ESTIMATES OF BIOMASS, AND TO ACQUIRE BIOLOGICAL SAMPLES FOR LABORATORY ANALYSIS.

C. PRODUCT/SERVICES: ANNUAL REPORTS CONCERNING THE STATUS OF THE BOTTOMFISH FISHERY ARE PRODUCED FOR USE BY THE WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL. INNOVATIVE METHODOLOGIES AND NOTEWORTHY FINDINGS ARE PUBLISHED IN THE SCIENTIFIC LITERATURE.

D. CLIENTS: THE PRIMARY CLIENTS WILL BE THE WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL, ITS SCIENTIFIC AND STATISTICAL COMMITTEE, AND THE INDUSTRY ADVISORY PANEL. ISLAND GOVERNMENTS THROUGHOUT THE PACIFIC REGION ALSO BENEFIT SUBSTANTIALLY FROM THE RESEARCH CONDUCTED IN THIS TASK.

E. CONTRACTS: U.S. COLD STORAGE; $1,000.00; COLD STORAGE FOR BAIT AND SCIENTIFIC SPECIMENS.

NOAA FISHERIES
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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| FTP: | | | | |
| 1. SOMERTON, DAVID A. | FISHERY BIOLOGIST | GS/12/03 | 100 | 8L1C5AH1 |
| 2. SHIOTA, PAUL M. | FISHERY BIOLOGIST | GS/11/06 | 100 | 8L1C5AH1 |
| 3. EVERSON, ALAN R. | BIOLOGICAL TECHNICIAN | GS/7/04 | 100 | 8L1C5AH1 |
| PTP: | | | | |
| 1. WILLIAMS, HAPPY A. | BIOLOGICAL AID | GS/4/04 | 96 | 8L1C5AH1 |
| TEMPORARIES: | | | | |
| 1. KOBAYASHI, DONALD R. | BIOLOGICAL TECHNICIAN | GS/5/01 | 100 | 8L1C5AH1 |
| 2. LANDGRAF, KEVIN | BIOLOGICAL TECHNICIAN | GS/5/01 | 100 | 8L1C5AH1 |

FORM 4

NOAA FISHERIES

CURRENT YEAR OPERATING PLAN

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| SWR | 730 | 4 OF 4 |

MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L1C5AH1 | 1 | A | ANALYZE OTOLITHS OF EXPLOITED BOTTOM FISHES. | O | - | - | - | - | - | - | S |
| | 2 | A | ANALYZE AUCTION LOT STATISTICS FOR BOTTOM FISH ASSESSMENT. | | F | M | | F | M | F | M |
| | 3 | M | ISSUE ANNUAL BOTTOMFISH STATUS OF STOCKS REPORT. | | | J | | | J | | J |
| | 4 | E | COMPLETE MANUSCRIPT ON STOCK ASSESSMENT OF NEHU. | D | | | | | | | |
| | 5 | A | ANALYZE NEHU OTOLITHS ON SCANNING ELECTRON MICROSCOPE. | O | M | | | | | | |
| | 6 | E | COMPLETE MANUSCRIPT ON NEHU EGG DENSITY AND VERTICAL DISTRIBUTION | | | A | | | | | |
| | 7 | A | STATISTICAL ANALYSIS ON NEHU FIELD SAMPLES TO DTERMINE MORTALITY. | | F | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

FORM 1

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr    TITLE -> SEAMOUNT RESOURCES

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | \/ |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 8L1A6AE0 | | | | |
| DIRECT LABOR | 154.6 | | | | 154.6 |
| PERS. BENEFITS | 17.7 | | | | 17.7 |
| TRAVEL | 3.0 | | | | 3.0 |
| TRANSPORTATION | 1.4 | | | | 1.4 |
| RENT,COMM.,UTIL. | 1.0 | | | | 1.0 |
| PRINT/REPROD. | 0 | | | | 0 |
| CONTRACTS | 4.0 | | | | 4.0 |
| SUPPLIES/MATERIAL | 12.8 | | | | 12.8 |
| EQUIPMENT | 6.0 | | | | 6.0 |
| GRANTS | 0 | | | | 0 |
| TOTALS -> | 200.5 | | | | 200.5 |
| FTE (FTP) | 4.0 | | | | 4.0 |
| FTE (OTFTP) | 1.0 | | | | 1.0 |

| VESSELS # SEA DAYS ALLOC. | |
|---|---|
| 39 | |
| NOAA | CHARTERS |
| 39 | |
| # FREE DAYS | |
| | |

CROSS REFERENCES

FORM 2

CURRENT YEAR OPERATING PLAN

| EXECUTIVE SUMMARY | FMC | REF. NO. | PAGE |
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| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| SEAMOUNT RESOURCES STUDY | HONOLULU | 5.0 | 200.5 | D. A. SOMERTON | RESOURCE INFORMATION |

A. PROBLEM STATEMENT/OBJECTIVE: CERTAIN SEAMOUNTS MAY BE HIGHLY PRODUCTIVE AND SUPPORT COMMERCIAL CONCENTRATIONS OF LIVING RESOURCES. THE SEAMOUNT RESOURCES PROGRAM EMPHASIZES RESEARCH ON THE SEAMOUNTS OF THE CENTRAL NORTH PACIFIC AND THE HAWAIIAN CHAIN. THE FOCUS OF A FISHERY IN THE 1970'S, THESE SEAMOUNTS PRODUCED APPROXIMATELY A MILLION METRIC TONS OF PELAGIC ARMORHEAD. WE SEEK TO UNDERSTAND THE DYNAMICS OF THE RESOURCE AND OF THE ECOSYSTEM WHICH SUPPORTED IT.

B. METHODOLOGY/APPROACH: STOCKS OF ARMORHEAD ARE CURRENTLY DEPLETED BUT COULD SUSTAIN A MODERATE-SCALE FISHERY IF REBUILT; TRAWL FISHERIES WITHIN THE FISHERY CONSERVATION ZONE FOR SEAMOUNT SPECIES HAVE BEEN CLOSED TO FOREIGN FISHING AND AN IMPORTANT PART OF THE PROGRAM IS TO MONITOR THE REBUILDING OF THE STOCKS. RESEARCH IN THE TASK INCLUDES COMPONENTS OF STOCK DYNAMICS AND ASSESSMENT, BIOLOGY OF THE IMPORTANT RESOURCES, AND SEAMOUNT ECOLOGY, INCLUDING COLLABORATIVE RESEARCH WITH UNIVERSITY RESEARCHERS. IN FY89, WE WILL CONTINUE TO DEVELOP FISHERY-INDEPENDENT ASSESSMENT TOOLS WHICH MAY BE USED TO ESTIMATE RELATIVE STOCK ABUNDANCE. UNDERSTANDING THE RELATIONSHIP OF OCEANOGRAPHY AND STOCK DYNAMICS IS DIRECTED TOWARDS DETERMINING POTENTIAL YIELD, PREDICTING RECRUITMENT, AND DEVELOPING GENERALITIES ABOUT SEAMOUNT PRODUCTIVITY.

C. PRODUCT/SERVICES: OUTPUT PRODUCTS FROM THIS TASK WILL BE USED BY THE SOUTHWEST REGION AND WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL TO DECIDE UPON REGULATORY ACTION ON THE SEAMOUNT FISHERY, CURRENTLY CLOSED TO FOREIGN FISHING. PRODUCTS WILL ALSO BE USED FOR FISHERY MANAGEMENT PLANS AND THE BOTTOM FISH/SEAMOUNT GROUNDFISH FISHERY MANAGEMENT PLAN MONITORING REPORT. SINCE SEAMOUNTS IN THE REGION ARE SOURCES OF IMPORTANT MANGANESE CRUSTS CONTAINING STRATEGIC MINERALS, OUR WORK ON THE ECOLOGY OF SEAMOUNTS CAN BE USED BY THE MINERALS MANAGEMENT SERVICE, CONSERVATION GROUPS, AND PRIVATE CONSULTANTS AND CONTRACTORS TO CONSIDER ENVIRONMENTAL IMPACTS OF MINERAL EXPLOITATION.

D. CLIENTS: RESULTS OF THE RESEARCH, IN THE FORM OF DATA AND ANALYSIS, WILL BE USED BY THE NMFS SOUTHWEST REGION, THE WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL, THE FISHING INDUSTRY, THE MINERALS MANAGEMENT SERVICE, CONSERVATION GROUPS, PRIVATE CONSULTANTS AND CONTRACTORS, AND STATE OF HAWAII AGENCIES.

E. CONTRACTS:
LONGLINE TIMER CONSTRUCTION $4.0

FORM 3

NOAA FISHERIES

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| FTP: | | | | |
| 1. VACANT | FISHERY BIOLOGIST | GS/12/01 | 100 | 8L1A6AE0 |
| 2. HUMPHREYS, ROBERT, JR. | FISHERY BIOLOGIST | GS/9/02 | 100 | 8L1A6AE0 |
| 3. SEKI, MICHAEL P. | FISHERY BIOLOGIST | GS/9/02 | 100 | 8L1A6AE0 |
| 4. KIKKAWA, BERT S. | BIOLOGICAL TECHNICIAN | GS/9/01 | 100 | 8L1A6AE0 |
| TEMPORARIES: | | | | |
| 1. CROSSLER, MARK | BILOGICAL AID | GS/3/01 | 100 | 8L1A6AE0 |

CURRENT YEAR OPERATING PLAN

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| SWR | 731 | 4 OF 4 |

MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | 2 | 3 | 4 | 90 1 | 2 | 91 1 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1A6AE0 | -- | A | COLLABORATE WITH UNIVERSITY RESEARCH PROGRAMS AND OTHERS DEALING WITH SEAMOUNTS. | O | - | - | - | - | - | - | X |
| | -- | A | CONTINUE STUDY OF TROPHIC RELATIONSHIPS OF DOMINANT SEAMOUNT SPECIES. | O | - | - | - | - | X | | |
| | -- | E | COMPLETE MANUSCRIPT ON LONGLINE TIMER ASSESSMENT TECHNIQUE AND ITS APPLICATION TO FISHERIES RESEARCH. | | | M | | | | | |
| | -- | E | COMPLETE MANUSCRIPT ON THE VERTICAL DISTRIBUTION OF ARMORHEAD AND DIURNAL AND SEASONAL VARIABILITY. | | M | | | | | | |
| | -- | M | ISSUE ARMORHEAD STATUS OF STOCK REPORT FOR THE BOTTOM FISH/ SEAMOUNT GROUNDFISH FISHERY MANAGEMENT PLAN MONITORING TEAM. | | | M | | | | | |
| | -- | E | COMPLETE STUDY OF PARASITES AS INDICATORS OF RECRUITMENT IN ARMOR-HEAD. | | | J | | | | | |
| | -- | E | COMPLETE MANUSCRIPT ON THE FEEDING HABITS OF PELAGIC ARMORHEAD. | | | | S | | | | |
| | -- | A | ANALYZE RESEARCH CRUISE DATA TO ESTIMATE THE ABUNDANCE OF ARMOR-HEAD ON SE HANCOCK SEAMOUNT. | | M | | | M | | M | |
| | | | | | | | | | | | |
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FORM 1

NOAA FISHERIES
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr

TITLE -> FISHERY ENHANCEMENT AND DYNAMICS

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | \/ |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1<br>8L1A4BRS | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| DIRECT LABOR | 219.8 | | | | 219.8 |
| PERS. BENEFITS | 25.1 | | | | 25.1 |
| TRAVEL | 5.0 | | | | 5.0 |
| TRANSPORTATION | 1.0 | | | | 1.0 |
| RENT,COMM.,UTIL. | 1.0 | | | | 1.0 |
| PRINT/REPROD. | 1.0 | | | | 1.0 |
| CONTRACTS | 4.7 | | | | 4.7 |
| SUPPLIES/MATERIAL | 30.0 | | | | 30.0 |
| EQUIPMENT | 23.8 | | | | 23.8 |
| GRANTS | 0 | | | | 0 |
| TOTALS -> | 311.4 | | | | 311.4 |
| FTE (FTP) | 3.0 | | | | 3.0 |
| FTE (OTFTP) | 4.0 | | | | 4.0 |

| VESSELS<br># SEA DAYS ALLOC. | |
|---|---|
| 57 | |
| NOAA | CHARTERS |
| 57 | 0 |
| # FREE DAYS | |
| 0 | |

CROSS REFERENCES

FORM 2

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| FISH. ENHANCE. & DYNAMICS | HONOLULU | 7.0 | 311.4 | J. POLOVINA | RESOURCE INFORMATION |

A. PROBLEM STATEMENT/OBJECTIVE: THIS TASK INVESTIGATES POPULATION DYNAMICS AND RESOURCE ASSESSMENT FOR FISHERY RESOURCES AROUND TROPICAL ISLAND ECOSYSTEMS. THE WORK INCLUDES DEVELOPMENT OF NEW QUANTITATIVE APPROACHES AND SPECIFICALLY ADDRESSES ASSESSMENT, FORECASTING, AND MANAGEMENT OF THE HAWAIIAN LOBSTER FISHERY.

B. METHODOLOGY/APPROACH: QUANTITATIVE MODELS ARE USED TO EXPLAIN AND FORECAST CHANGES WITHIN AND BETWEEN ISLAND ECOSYSTEMS. IN THE LOBSTERS ASSESSMENT BOTH STANDARDIZED ANNUAL RESEARCH CRUISE DATA AND COMMERCIAL FISHERY CATCH AND EFFORT DATA WILL BE USED TO FORECAST FUTURE CATCHES.

C. PRODUCT/SERVICES: AN ANNUAL STATUS OF LOBSTER STOCKS REPORT IS PROUCED FOR THE WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL. ECOLOGICAL AND METHODOLOGICAL RESULTS ARE PUBLISHED IN SCIENTIFIC JOURNALS.

D. CLIENTS: WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL AND ISLAND GOVERNMENTS.

E. CONTRACTS: DEVELOPMENT OF COMPUTER SOFTWARE TO ACCESS AND ANALYZE DATA FROM ACOUSTIC DOPPLER CURRENT PROFILER.

FORM 3

NOAA FISHERIES

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| FTP: | | | | |
| 1. POLOVINA, JEFFREY J. | MATHEMATICAL STATISTICIAN | GM/13 | 100 | 8L1A4BRS |
| 2. MOFFITT, ROBERT B. | FISHERY BIOLOGIST RESEARCH | GS/9/04 | 100 | 8L1A4BRS |
| 3. KAZAMA, THOMAS K. | FISHERY BIOLOGIST RESEARCH | GS/11/07 | 100 | 8L1A4BRS |
| TEMPORARIES: | | | | |
| 1. BENCO, RONOLD A. | COMPUTER PROGRAMMER | GS/7/01 | 100 | 8L1A4BRS |
| 2. PARRISH, FRANK A. | BIOLOGICAL AID | GS/5/01 | 100 | 8L1A4BRS |
| 3. YOSHIMOTO, RONALD K. | BIOLOGICAL AID | GS/3/01 | 100 | 8L1A4BRS |
| 4. BROMWELL, KARL B. | BIOLOGICAL AID | GS/4/01 | 100 | 8L1A4BRS |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | FY 89 2 | FY 89 3 | FY 89 4 | 90 1 | 90 2 | 91 1 | 91 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1A4BRS | 1 | M | PRODUCE ANNUAL STATUS OF LOBSTER STOCKS REPORT. | | F | | | | | | |
| | 2 | A | CONDUCT LOBSTER RESEARCH CRUISE. | | | J | | | | | |
| | 3 | E | COMPLETE MANUSCRIPT ON LOBSTER FORECAST MODEL. | | | J | | | | | |
| | 4 | E | COMPLETE MANUSCRIPT ON PAPUA NEW GUINEA PRAWN FISHERY. | | J | | | | | | |
| | 5 | E | ASSIST IN TRAINING WORKSHOP ON STOCK ASSESSMENT FOR PACIFIC ISLANDERS. | | | | S | | | | |
| | 6 | A | COMPLETE CRUSTACEAN LARVAE SORTING AND ANALYSIS. | | | | S | | | | |
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FORM 1

# NOAA FISHERIES
## CURRENT YEAR OPERATING PLAN

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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr  TITLE -> Hawaii Stock Management Program

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | > |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1<br>8L1A1A01 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| DIRECT LABOR | | | | | |
| PERS. BENEFITS | | | | | |
| TRAVEL | | | | | |
| TRANSPORTATION | | | | | |
| RENT,COMM.,UTIL. | | | | | |
| PRINT/REPROD. | | | | | |
| CONTRACTS | 400.0 | | | | 400.0 |
| SUPPLIES/MATERIAL | | | | | |
| EQUIPMENT | | | | | |
| GRANTS | | | | | |
| TOTALS -> | 400.0 | | | | 400.0 |
| FTE (FTP) | 0 | | | | 0 |
| FTE (OTFTP) | | | | | |

| VESSELS<br># SEA DAYS ALLOC. | |
|---|---|
| | |
| NOAA | CHARTERS |
| | |
| # FREE DAYS | |
| | |

CROSS REFERENCES

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Hawaii Stock Mgmt Program | Honolulu, HI | 0 | 400 | G. Boehlert | Resource Survey |

A. PROBLEM STATEMENT/OBJECTIVE: Recent evidence has documented declines in Hawaii's nearshore fisheries resources; in response, a research initiatives have been developed to determine the causes of this decline and to take remedial action. Issues of concern include habitat degradation or change, pollution, and changes in marine resource availability. The Hawaii stock management program is being developed to address problems confronting the coastal marine environment. Objectives will be aimed at strengthening the understanding of nearshore fishery resources and developing strategies to reverse apparent stock declines through improved management of the stock and habitat.

B. METHODOLOGY/APPROACH: Innovative research on nearshore fishery resources of importance to recreational and commercial fishermen in Hawaii will be solicited through announcement of availability of funds in the federal register and CBD. Research topics of interest for this program include, but are not limited to population dynamics of nearshore resources, stock assessment, conservation and management of resources, enhancement of important stocks, habitat quality and changes in habitat availability, ecological studies of carrying capacity, analysis of larval and juvenile habitat requirements, resource user conflicts and economic research, and improvements to fisheries data collection and management.

C. PRODUCT/SERVICES: With new scientific findings from this research, NMFS will be able to assist the State of Hawaii and its local government to develop strategies to reverse apparent stock declines through improved management of the stock and habitat.

D. CLIENTS: State and local government, recreational and commercial fishery industries in Hawaii and the U. S.

E. CONTRACTS: Contract, grants and cooperative agreements will be used to fund research projects.

FORM 1

NOAA FISHERIES
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> [signature] TITLE -> FISHERY MANAGEMENT RESEARCH PROGRAM

HQ CONTACT(S) ->

| TASK NAMES -> | FMRP | KEWALO | | | \/ |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1<br>8L1C2AP0 | TASK #2<br>8L1C2AP1 | TASK #3 | TASK #4 | TOTALS |
| DIRECT LABOR | 223.1 | 11.0 | | | 234.1 |
| PERS. BENEFITS | 27.0 | 1.4 | | | 28.4 |
| TRAVEL | 4.8 | 0 | | | 4.8 |
| TRANSPORTATION | 0 | 0 | | | 0 |
| RENT, COMM., UTIL. | 0.3 | 55.5 | | | 55.8 |
| PRINT/REPROD. | 0 | 0 | | | 0 |
| CONTRACTS | 1.5 | 2.0 | | | 3.5 |
| SUPPLIES/MATERIAL | 2.7 | 2.5 | | | 5.2 |
| EQUIPMENT | 1.3 | 1.0 | | | 2.3 |
| GRANTS | 0 | 0 | | | 0 |
| TOTALS -> | 260.7 | 73.4 | | | 334.1 |
| FTE (FTP) | 4.0 | 0 | | | 4.0 |
| FTE (OTFTP) | 4.1 | 0.8 | | | 4.9 |

| VESSELS # SEA DAYS ALLOC. | |
|---|---|
| N/A | |
| NOAA | CHARTERS |
| | |
| # FREE DAYS | |
| | |

CROSS REFERENCES

NOAA FISHERIES
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EXECUTIVE SUMMARY

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| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| FISHERY MANAGE. RES. PROG. | HONOLULU | 8.9 | 260.7 | S. POOLEY | INFO. ANALYSES & DISSEMINATION |

A. PROBLEM STATEMENT/OBJECTIVE: TO BE THE FOCAL POINT FOR PROVIDING SCIENTIFIC INFORMATION TO THE WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL. TO COLLECT FISHERIES DATA FOR BIOLOGICAL AND ECONOMIC RESEARCH ON PACIFIC OCEANIC FISHERIES. TO UNDERTAKE ECONOMIC RESEARCH ON PACIFIC OCEAN FISHERIES.

B. METHODOLOGY/APPROACH: FISHERIES MONITORING INVOLVES COLLECTION AND COMPILATION OF FISHERY AND MARKET DATA FOR MFCMA AND TUNA FISHERIES. DATA INCLUDE LOG BOOK PROGRAMS, SHORESIDE SAMPLING, AND SPECIAL SURVEYS. FISHERIES RESEARCH INVOLVES PARTICIPATION IN MANAGEMENT TECHNICAL BODIES (SUCH AS PLANNING TEAMS) AND PREPARATION OF SPECIAL FISHERIES OPERATIONAL AND STATUS REPORTS. FISHERIES ECONOMIC RESEARCH INVOLVES COST-EARNINGS STUDIES OF VESSELS, INVESTIGATION OF SEAFOOD MARKET FLOWS CONDUCTING RECREATIONAL FISHERIES VALUATION STUDIES, AND EVALUATING REGULATORY REGIMES.

C. PRODUCT/SERVICES: ANNUAL AND PERIODIC MONITORING REPORTS ON STATUS OF MAJOR FISHERIES. ECONOMIC RESEARCH STUDIES. CONSOLIDATED FISHERY RESEARCH DATA SETS.

D. CLIENTS: PRIMARY: WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL AND HL INSULAR AND PELAGIC RESEARCH INVESTIGATIONS. SECONDARY: STATE AND TERRITORIAL FISHERY, COASTAL ZONE, AND ENVIRONMENTAL AGENCIES; UNIVERSITY OF HAWAII; OTHER NMFS FACILITIES; PRIVATE INDUSTRY.

E. CONTRACTS: EQUIPMENT REPAIR AND MAINTENANCE. UNIVERSITY OF HAWAII COLLABORATION STUDENT RESEARCH PROGRAMS (SEA GRANT MARINE OPTION PROGRAM).

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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| KEWALO RESEARCH FACILITY | HONOLULU | 0.75 | 73.4 | R. F. SUMIDA | INFO. ANALYSES & DISSEMINATION |

A. PROBLEM STATEMENT/OBJECTIVE: THE KEWALO RESEARCH FACILITY (KRF) TASK SUPPORTS OTHER TASKS AT THE HONOLULU LABORATORY BY PROVIDING THE PHYSICAL PLANT FOR RESEARCH ON MONK SEALS, TUNAS, BOTTOM FISHES, AND OTHER MARINE SPECIES. EXAMPLES OF PROJECTS CONDUCTED AT THE KRF INCLUDE ESCAPE PANEL RESEARCH FOR THE LOBSTER FISHERY, THE SPAWNING AND REARING OF TUNAS AND OTHER PELAGIC SPECIES IN CAPTIVITY FOR ASSESSING EFFECTS OF ENVIRONMENTAL FACTORS ON LARVAL SURVIVAL AND GROWTH, FEMALE

B. METHODOLOGY/APPROACH: MONK SEAL REHABILITATION UNDER THE ENDANGERED SPECIES ACT OF 1973. KRF IS THE MAIN STAGING AREA FOR ALL GEAR STORAGE/PREPARATION, ETC., FOR THE "TOWNSEND CROMWELL" CRUISES.

THE RESEARCH PROJECTS OF THE VARIOUS TAKS AT THE HONOLULU LABORATORY WHO USE THE KRF ARE DESIGNED TO PROVIDE INFORMATION FOR THE IMPROVEMENT OF BIOLOGICAL MODELS USED AS A BASIS FOR MONITORING, MANAGEMENT, AND DEVELOPMENT OF VARIOUS FISHERIES.

C. PRODUCT/SERVICES: RESULTS OF THESE RESEARCH ARE USED BY FISHERY SCIENTISTS AND RESOURCE MANAGERS TO PRODUCE MORE ACCURATE ASSESSMENTS AND MANAGEMENT ANALYSES.

D. CLIENTS: THE RESULTS OF ALL RESEARCH DONE AT THE KRF SUPPORT THE NEEDS OF NMFS POLICYMAKERS, WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL, AND ISLAND GOVERNMENTS THROUGHOUT THE PACIFIC REGION.

E. CONTRACTS: REFUSE COLLECTION.

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| FTP: | | | | |
| 1. POOLEY, SAMUEL G. | INDUSTRY ECONOMIST | GM/13 | 100 | 8L1C2AP0 |
| 2. SUMIDA, RAY, F. | FISHERY BIOLOGIST | GS/11/08 | 100 | 8L1C2AP0 |
| 3. CLARKE, RAYMOND P. | BIOLOGICAL TECHNICIAN | GS/7/02 | 100 | 8L1C2AP0 |
| 4. KAWAMOTO, KURT E. | BIOLOGICAL TECHNICIAN | GS/6/02 | 100 | 8L1C2AP0 |
| PTP: | | | | |
| 1. ITO, RUSSELL Y. | BIOLOGICAL TECHNICIAN | GS/5/02 | 96 | 8L1C2AP0 |
| 2. TODOKI, ANN C. | COMPUTER PROGRAMMER | GS/7/03 | 96 | 8L1C2AP0 |
| 3. THERRY, DENNIS | BIOLOGICAL TECHNICIAN | GS/5/01 | 50 | 8L1C2AP0 |
| TEMPORARIES: | | | | |
| 1. CZYZ, JOHN J. | BIOLOGICAL AID | GS/4/01 | 68 | 8L1C2AP0 |
| 2. UYEDA, RICHARD I. | MATH. AID | GS/4/01 | 100 | 8L1C2AP0 |
| 3. ASAGI, LANCE S. | BIOLOGICAL AID | GS/3/01 | 75 | 8L1C2AP1 |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | 2 | 3 | 4 | 90 1 | 2 | 91 1 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1C2AP0 | 1 | A | COLLECT AND COMPILE BIOLOGICAL, OPERATIONAL, AND ECONOMIC DATA FROM COMMERCIAL AND RECREATIONAL FISHERIES COVERED BY THE MFCMA. | O | - | - | - | - | - | - | S |
| | 2 | M | ISSUE ANNUAL LOBSTER FISHERY REPORT. | | | A | | A | | A | |
| | 3 | M | ISSUE ANNUAL BOTTOMFISH MODULE. | | | J | | J | | J | |
| | 4 | M | ISSUE ANNUAL PELAGIC SPECIES MODULE. | | | | J | | J | | J |
| | 5 | A | COLLECT BIOLOGICAL, OPERATIONAL, ECONOMIC, AND ENVIRONMENTAL DATA ON WESTERN PACIFIC TUNA FISHERIES. | O | - | - | - | - | - | - | S |
| | 6 | E | ISSUE ANNUAL WESTERN PACIFIC TUNA REPORT. | | | | A | | A | | A |
| | 7 | E | INTEGRATE HAWAII WHOLESALE AND SHORESIDE MONITORING DATA BASES. | | | | S | | | | |
| | 8 | E | UPDATE ANNUAL VESSEL INVENTORY. | | | | S | | S | | S |
| | 9 | A | CONDUCT ECONOMIC RESEARCH. | O | - | - | - | - | - | - | S |
| | 10 | A | PARTICIPATE IN COUNCIL SCIENTIFIC COMMITTEES. | O | - | - | - | - | - | - | S |
| | 11 | A | COORDINATE FMRP WITH WPACFIN ACTIVITIES. | O | - | - | - | - | - | - | S |

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NOAA FISHERIES
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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L1C2AP1 | 1 | A | PROVIDE DOCKSIDE FACILITIES SUPPORT AND MAINTAIN PRESENCE AT COMMERCIAL FISHERIES WATERFRONT. | O | - | - | - | - | - | - | S |
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NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr    TITLE -> MARINE MAMMALS & ENDANGERED SPECIES

HQ CONTACT(S) ->

| TASK NAMES -> | MONK SEAL | MAR. TURTLE | | | \/ |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 8L1A3VW0 | 8L1A3VW1 | | | |
| DIRECT LABOR | 212.5 | 57.3 | | | 269.8 |
| PERS. BENEFITS | 25.7 | 7.0 | | | 32.7 |
| TRAVEL | 6.0 | 1.0 | | | 7.0 |
| TRANSPORTATION | 0 | 0 | | | 0 |
| RENT,COMM.,UTIL. | 1.0 | 0 | | | 1.0 |
| PRINT/REPROD. | 0 | 0 | | | 0 |
| CONTRACTS | 15.0 | 5.0 | | | 20.0 |
| SUPPLIES/MATERIAL | 3.8 | 1.0 | | | 4.8 |
| EQUIPMENT | 0 | 0 | | | 0 |
| GRANTS | 0 | 0 | | | 0 |
| TOTALS -> | 264.0 | 71.3 | | | 335.3 |
| FTE (FTP) | 3.5 | 1.0 | | | 4.5 |
| FTE (OTFTP) | 2.4 | 1.0 | | | 3.4 |

| VESSELS # SEA DAYS ALLOC. | |
|---|---|
| 16 | |
| NOAA | CHARTERS |
| 16 | |
| # FREE DAYS | |
| | |

CROSS REFERENCES

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NOAA FISHERIES

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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| MAR. MAMMALS & END. SPECIES | HONOLULU | 7.9 | 335.3 | W. G. GILMARTIN | RESOURCE INFORMATION |

A. PROBLEM STATEMENT/OBJECTIVE: THIS TASK MONITORS THE HAWAIIAN MONK SEAL AND SEA TURTLE POPULATIONS, PERFORMS RESEARCH TO IDENTIFY IMPEDIMENTS TO RECOVERY OF THESE ENDANGERED AND THREATENED SPECIES, AND EXPERIMENTS WITH RECOVERY ACTIONS DIRECTED AT INCREASING THE POPULATION SIZE. THE NMFS IS RESPONSIBLE FOR THIS WORK UNDER THE MARINE MAMMAL PROTECTION ACT & THE ENDANGERED SPECIES ACT. EFFORTS INCLUDE IMPLEMENTATION OF THE RECOVERY PLAN FOR THE MONK SEAL AND THE PENDING DRAFT RECOVERY PLAN FOR HAWAIIAN SEA TURTLE.

B. METHODOLOGY/APPROACH: THE PRINCIPAL RESEARCH IN THIS TASK IS PERFORMED BY FIELD TEAMS AT BREEDING SITES IN THE NORTHWESTERN HAWAIIAN ISLANDS. FLIPPER TAGS ARE USED TO COLLECT DATA ON SURVIVAL, REPRODUCTION, GROWTH RATE MOVEMENTS, POPULATION SIZE, AND COMPOSITION. SOME MONK SEAL PUPS ARE COLLECTED FOR TEMPORARY CAPTIVE MAINTENANCE TO INCREASE SURVIVORSHIP. REHABILITATION OF SOME '88 PUPS WILL CONTINUE AND THESE WILL BE RELEASED IN THE SPRING OF 1989. ASSESSMENTS ARE CONDUCTED OF SEA TURTLES AND THEIR FORAGING HABITAT IN COASTAL WATERS OFF THE MAIN HAWAIIAN ISLANDS.

C. PRODUCT/SERVICES: POPULATION DATA, IMPEDIMENTS TO RECOVERY WHICH ARE IDENTIFIED, AND RECOVERY METHODOLOGIES ARE SUMMARIZED INTO TECHNICAL REPORTS.

D. CLIENTS: THE PRIMARY CLIENTS ARE THE NMFS, MARINE MAMMAL COMMISSION, FISH AND WILDLIFE SERVICE, AND HAWAIIAN MONK SEAL RECOVERY TEAMS. THE CLIENTS USE THE PRODUCTS TO RECOMMEND AND PLAN FUTURE RESEARCH, INITIATE MANAGEMENT STRATEGIES, AND TAKE APPROPRIATE RECOVERY ACTIONS TO ENHANCE THE SPECIES SURVIVAL STATUS.

E. CONTRACTS: DECAPEPTYL EFFECTS ON SERUM TESTOSTERONE IN NORTHERN ELEPHANT SEAL ($5K); DNA FINGERPRINTING IN HAWAIIAN MONK SEALS ($5K); DETERMINATION OF PATERNITY OF '88 MONK SEAL PUPS AT LAYSAN ISL. ($5K); RELATIONSHIP OF ALGAL/FORAGE TO PARASITE TRANSMISSION & FIBROPAPILLOMAS IN GREEN TURTLES ($5K).

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| FTP: | | | | |
| 1. GILMARTIN, WILLIAM G. | WILDLIFE BIOLOGIST | GM/14 | 100 | 8L1A3VW0 |
| 2. GERRODETTE, TIM | FISHERY BIOLOGIST | GS/12/04 | 100 | 8L1A3VW0 |
| 3. HENDERSON, JOHN R. | WILDLIFE BIOLOGIST | GS/11/04 | 100 | 8L1A3VW0 |
| 4. BALAZS, GEORGE H. | WILDLIFE BIOLOGIST | GS/11/05 | 100 | 8L1A3VW1 |
| PTP: | | | | |
| 1. ALCORN, DORIS J. | WILDLIFE BIOLOGIST | GS/9/02 | 50 | 8L1A3VW0 |
| 2. FORSYTH, ROBERT G. | BIOLOGICAL TECHNICIAN | GS/6/02 | 8 | 8L1A3VW1 |
| TEMPORARIES: | | | | |
| 1. BECKER, BRENDA L. | BIOLOGICAL TECHNICIAN | GS/5/01 | 100 | 8L1A3VW0 |
| 2. JOHANOS-KAM, THEA C. | WILDLIFE BIOLOGIST | GS/7/01 | 85 | 8L1A3VW0 |
| 3. WILCOX, MICHAEL K. | BIOLOGICAL AID | GS/2/01 | 50 | 8L1A3VW0 |
| 4. CHOY, BARRY K. | BIOLOGICAL TECHNICIAN | GS/4/01 | 8 | 8L1A3VW0 |
| 5. TBN | BIOLOGICAL TECHNICIAN | GS/5/01 | 92 | 8L1A3VW1 |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | FY 89 2 | FY 89 3 | FY 89 4 | 90 1 | 90 2 | 91 1 | 91 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1A3VW0 | 1 | E | PARTURITION IN THE HAWAIIAN MONK SEAL SUMMARY REPORT FOR JOURNAL PUBLICATION. | D | | | | | | | |
| | 2 | E | SUBMIT KURE ATOLL MONK SEAL RESEARCH/RECOVERY SUMMARY REPORT FOR JOURNAL PUBLICATION | | J | | | | | | |
| 8L1A3VW1 | 3 | A | ASSESS FORAGING HABITAT AT CONTROL AND HIGH INCIDENCE SITES OF FIBROPAPILLOMAS IN GREEN TURTLES. | | J | - | J | | | | |
| 8L1A3VW0 | 4 | A | CONDUCT KURE ATOLL HEAD START PROJECT WITH RELEASE OF PUPS BY JULY 1989. | | M | - | J | | | | |
| | 5 | A | CONDUCT MONK SEAL POPULATION MONITORING WORK (INCLUDING PUP TAGGING) AT KURE ATOLL AND LAYSAN ISLAND. | | M | - | J | | | | |
| | 6 | E | MOVEMENT PATTERNS OF THE HAWAIIAN MONK SEAL REPORT FOR JOURNAL PUBLICATION. | | | A | | | | | |
| 8L1A3VW0<br>8L1A3VW1 | 7 | E | SUMMARY REPORT ON MONK SEAL MARINE DEBRIS INTERACTIONS DELIVERED AT INTERNATIONAL CONFERENCE. | | | A | | | | | |
| 8L1A3VW1 | 8 | A | CONDUCT MONITORING AND TAGGING OF MIGRATORY BREEDING POPULATING OF GREEN TURTLES AT FRENCH FRIGATE SHOALS. | | | M | A | | | | |
| 8L1A3VW0 | 9 | A | CONDUCT PUP TAGGING AT LISIANSKI ISLAND AND PEARL AND HERMES REEF. | | | | A | | | | |
| | 10 | E | ACCURACY OF POPULATION ESTIMATES BASED ON RESIGHTING DATA MANUSCRIPT SUBMITTED FOR JOURNAL PUBLICATION. | | | | S | | | | |
| | 11 | E | SUMMARY REPORT ON PARASITES OF HAWAIIAN GREEN TURTLES SUBMITTED FOR JOURNAL PUBLICATION. | | | | S | | | | |

FORM 1

NOAA FISHERIES
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr  TITLE -> Tiburon Laboratory Administration

HQ CONTACT(S) ->

| TASK NAMES -> | MGMT FUND | LIBRARY | BASE MAINT | ADP | V |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS (9WGN40T0) |
| | 9WGN40T2 | 9WGN40T3 | 9WGN40T4 | | |
| DIRECT LABOR | 267.1 | | | | 267.1 |
| PERS. BENEFITS | 40.1 | | | | 40.1 |
| TRAVEL | 26.0 | | | | 26.0 |
| TRANSPORTATION | 5.6 | | | | 5.6 |
| RENT,COMM.,UTIL. | 44.5 | | | | 44.5 |
| PRINT/REPROD. | 0.8 | | | | 0.8 |
| CONTRACTS | 24.1 | 2.5 | | | 26.6 |
| SUPPLIES/MATERIAL | 10.0 | 5.0 | 8.5 | | 23.5 |
| EQUIPMENT | 3.8 | | | | 3.8 |
| GRANTS | | | | | |
| TOTALS -> | 422.0 | 7.5 | 8.5 | | 438.0 |
| FTE (FTP) | 7.1 | | | | 7.1 |
| FTE (OTFTP) | 1.6 | | | | |

| VESSELS # SEA DAYS ALLOC. | |
|---|---|
| | |
| NOAA | CHARTERS |
| | |
| # FREE DAYS | |
| | |

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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr | TITLE -> Tiburon Laboratory Administration

HQ CONTACT(S) ->

| TASK NAMES -> | | | | | V |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 8L1C1AGT | | | | |
| DIRECT LABOR | 33.3 | | | | 33.3 |
| PERS. BENEFITS | 5.0 | | | | 5.0 |
| TRAVEL | | | | | |
| TRANSPORTATION | | | | | |
| RENT,COMM.,UTIL. | | | | | |
| PRINT/REPROD. | | | | | |
| CONTRACTS | | | | | |
| SUPPLIES/MATERIAL | 4.8 | | | | 4.8 |
| EQUIPMENT | 7.8 | | | | 7.8 |
| GRANTS | | | | | |
| TOTALS -> | 50.9 | | | | 50.9 |
| FTE (FTP) | 1.0 | | | | 1.0 |
| FTE (OTFTP) | | | | | |

| VESSELS # SEA DAYS ALLOC. | |
|---|---|
| | |
| NOAA | CHARTERS |
| | |
| # FREE DAYS | |
| | |

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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| MANAGEMENT FUND | TIBURON, CA | 9.7 | 488.9 | A. MacCALL | Management Fund |

A. PROBLEM STATEMENT/OBJECTIVE: To provide overall management and administration of both human and fiscal resources for the Tiburon Laboratory.

B. METHODOLOGY/APPROACH: Provide guidance for overall operations and scientific program of Tiburon Laboratory. Maintain and improve internal controls and streamline operating procedures.

C. PRODUCT/SERVICES: Provide efficient day-to-day administration of the Tiburon Laboratory in areas of procurement, personnel and facility maintenance; flow of information/products to outside agencies and the public.

D. CLIENTS: Southwest Region, Pacific Regional Fisheries Management Council, fishing industry, general public.

E. CONTRACTS:

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| 1. Norman Abramson | IPA | GM 15 | 100 | 9WGN4OT2 |
| 2. Alec MacCall | Superv. Fishery Biologist (Acting Director) | GM 14 | 100 | " |
| 3. Issei Yokota | Administrative Officer | GS 9/02 | 100 | " |
| 4. Susan Smith | Fishery Biologist | GS 11/05 | 10 | " |
| 5. Dorothy Rowland | Administrative Clerk | GS 5/01 | 100 | " |
| 6. Latane Lisle Lee | Secretary | GS 6/08 | 75 | " |
| 7. Maureen Leet | Librarian | GS 9/07 | 80 | " |
| 8. Elaine Mavrantonis | Clerk-Typist | GS 4/07 | 100 | " |
| 9. Antonio Munoz | Maintenance Man | WG 9/05 | 100 | " |
| 10. VACANT | Clerk-Typist | GS 4 | 100 | " |
| 11. Nancy Wiley | Computer Programmer Analyst | GS 11/07 | 100 | " |

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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr | TITLE -> GROUNDFISH ANALYSIS INVESTIGATION

HQ CONTACT(S) ->

| TASK NAMES -> | GF ANALYSIS | | | | V |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 8L1C2AM0 | 8L1C1ADP | | | |
| DIRECT LABOR | 308.7 | | | | 308.7 |
| PERS. BENEFITS | 45.6 | | | | 45.6 |
| TRAVEL | 8.4 | | | | 8.4 |
| TRANSPORTATION | 0.3 | | | | 0.3 |
| RENT,COMM.,UTIL. | 0.3 | | | | 0.3 |
| PRINT/REPROD. | 0.6 | | | | 0.6 |
| CONTRACTS | 26.8 | | | | 26.8 |
| SUPPLIES/MATERIAL | 11.2 | 3.5 | | | 14.7 |
| EQUIPMENT | 19.5 | 4.0 | | | 23.5 |
| GRANTS | | | | | |
| TOTALS -> | 421.4 | 7.5 | | | 428.9 |
| FTE (FTP) | 9 | | | | 9 |
| FTE (OTFTP) | 1 | | | | 1 |

| VESSELS # SEA DAYS ALLOC. | |
|---|---|
| 53 | |
| NOAA | CHARTERS |
| 35 | 0 |
| # FREE DAYS | |
| 18 | |

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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| GROUNDFISH ANALYSIS | TIBURON, CA | 10 | 428.9 | WILLIAM LENARZ | INFO. ANALYSIS & DISSEMINATION |

A. PROBLEM STATEMENT/OBJECTIVE: This task provides information needed to implement the groundfish plan of the Pacific Fishery Mangement Council. The requirements are defined by the Groundfish team and S&S Committee of the Council and through consultation with members of the scientific and fishing industry communities. Results of the work are provided to the Council to aid it in plan implementation decisions.

B. METHODOLOGY/APPROACH: Fishery dependent data are collected by a coopertive port sampling program with the state of California. Adults of these species are aged as part of a coastwide cooperative program. Fishery independent data are collected on the recruitment of rockfish using a NOAA vessel. Stock assessments and other analytical studies are done using the above data, and the PACFIN database and fishery independent data collected by the NWAFC. A staff member is on the Groundfish Management Team and works closely with the staff of the NWAFC and other agencies.

C. PRODUCT/SERVICES: Stock assessments are incorprated in the Council's Annual Stock States document. (Technical evaluation of potential impacts of proposed regulations are incorporated in Groundfish Team documents.) In addition the staff regularly publishes in peer reviewed journals and administrativ reports and present talks at scientific meetings.

D. CLIENTS: The main clients are the Pacific Fishery Managment Council and its entities. (Several members of the staff often respond to requests for informtion by the fishing industry and other scientists.

E. CONTRACTS: The major contract is an IPA with San Francisco State University for 25.3 K. The IPA supports work on the rockfish recruitment study.

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| 1. Lenarz, William H. | Fishery Biologist | GM 14 | 100 | 8LIC2AMO |
| 2. Ralston, Steven | Fishery Biologist | GM 13 | " | " |
| 3. Leet, William | Fishery Biologist | GS 12/13 | " | " |
| 4. Ueber, Edward | Industrial Economist | GS 12/7 | " | " |
| 5. Hightower, Joseph | Fishery Biologist | GS 12/3 | " | " |
| 6. Reilly, Carol | Biological Technician | GS 7/5 | " | " |
| 7. Woodbury, David | Biological Technician | GS 7/2 | " | " |
| 8. Pearson, Donald | Biological Technician | GS 5/1 | " | " |
| 9. McBride, Anne | Biological Technician | GS 5/1 | " | " |
| 10. Laidig, Thomas | Biological Aid | GS 4/1 | " | " |

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L1C2AM0 | 1 | M | Update and submit status of stocks reports for groundfish for PFMC | N | | | | X | | X | |
| " | 2 | E | Annual Tiburon Laboratory recruitment study report | | M | | | X | | X | |
| " | 3 | E | Report on species independent model | | J | | | | | | |
| " | 4 | E | Report on food study of pelagic juvenile rockfish | | J | | | | | | |
| " | 5 | E | Report on projected impact of mesh size regulations on individual vessels | | J | | | | | | |
| " | 6 | E | Report on effects of trip size regulations on behavior of ground fish fleet | | J | | | | | | |
| " | 7 | E | Report on daily age study of juvenile rockfish | | J | J | | | | | |
| " | 8 | E | Report on sablefish otolith measurements | | | | | | | | |
| " | 9 | E | Report on shortbelly rockfish | | J | M | | | X | | X |
| " | 10 | A | Juvenile Rockfish Survey | | | M | | | X | | X |
| | | | | | | | | | | | |

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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr    TITLE -> GROUNDFISH COMMUNITIES

HQ CONTACT(S) ->

| TASK NAMES -> | GROUNDFISH | | | | V |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1 | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| | 8LIA3APO | | | | |
| DIRECT LABOR | 210.1 | | | | 210.1 |
| PERS. BENEFITS | 30.2 | | | | 30.2 |
| TRAVEL | 4.3 | | | | 4.3 |
| TRANSPORTATION | | | | | |
| RENT,COMM.,UTIL. | | | | | |
| PRINT/REPROD. | 0.5 | | | | 0.5 |
| CONTRACTS | 2.5 | | | | 2.5 |
| SUPPLIES/MATERIAL | 4.0 | | | | 4.0 |
| EQUIPMENT | 1.0 | | | | 1.0 |
| GRANTS | | | | | |
| TOTALS -> | 252.6 | | | | 252.6 |
| FTE (FTP) | 7 | | | | 7 |
| FTE (OTFTP) | | | | | |

| VESSELS # SEA DAYS ALLOC. | |
|---|---|
| 70 | |
| NOAA | CHARTERS |
| 0 | 0 |
| # FREE DAYS | |
| 70 | |

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EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
| --- | --- | --- | --- | --- | --- |
| GROUNDFISH COMMUNITIES | TIBURON | 7.0 | 252.6 | E. HOBSON | RESOURCE INFORMATION |

A: PROBLEM STATEMENT/OBJECTIVE: Task identifies effects of natural change in the marine environment on the distribution, abundance and relative year class strength of groundfish species. Knowledge and understanding of those effects is required before the effects of human activities on these species or their environment can recognized.

B. METHODOLOGY/APPROACH: Effects of both regular (e.g., seasonal) and irregular (e.g.. catastrophic storms, El Ninos) are measured at established sites nearshore in both warm-temperate southern California and cold-temperate northern California (thus involving the two major coastal marine systems of western United States) and also at varying locations on the deep slope of the continental shelf. Emphasis is on how these changes affect interspecific relations, especially those between predators and and prey and how they influence relative numbers of young-of-the-year. Regular assessments of the biota are made with a variety of collecting devices, and visually when feasible. Trophic relations are determined by visual observations and comprehensive study of gut contents. Results are subjected to rigorous peer review.

C. PRODUCT/SERVICES: Major products are published papers, reports and stock-assessment documents presented to the Pacific Fishery Management Council.

D. CLIENTS: Clients include fishery managers, Pacific Fishery Management Council, researchers and others with need to understand, or interest in, the dynamics of marine ecosystems, particularly those of the U.S.Pacific Coast.

E. CONTRACTS: None

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PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| 1. Edmund Hobson | Fishery Biologist - | GM 14 | 100 | 8L1A3APO |
| 2. Peter B. Adams | Fishery Biologist | GS 12/5 | 100 | " |
| 3. James R. Chess | Fishery Biologist | GS 12/5 | 100 | " |
| 4. Daniel F. Howard | Fishery Biologist | GS 7/3 | 100 | " |
| 5. Wayne M. Samiere | Fishery Aid | GS 5/3 | 100 | " |
| 6. Kelly Silberberg | Biological Technician | GS 5/1 | 100 | " |
| 7. Mwenda Kudumu | General Biologist | GS 5/1 | | |

FORM 4

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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | 2 | 3 | 4 | 90 1 | 2 | 91 1 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8LIA3APO | 1 | A | Assess 1989 year class of Sebastes ssp; visual counts and occurrences in predator diets. | | | A | | x | | | |
| " | 2 | A | Study influence of trophic relations on recruitment success. | O | | | | | | | |
| " | 3 | M | Produce annual report on relative strength of year class in Sebastes ssp. | | M | | | x | | x | |
| " | 4 | A | Monitor charges in nearshore groundfish communities | O | | | | | | | x |
| " | 5 | A | Define spatial distributions of species in deep-slope groundfish communities. | O | | | | | | | x |
| " | 6 | A | Evaluate food habits of fishes in deep-slope groundfish communities. | O | | | | | | | |
| " | 7 | E | Produce ms on impact of trophic relations on multispecies management policies. | | | | S | | | | |
| " | 8 | E | Produce ms on use of predator stomach contents to estimate rockfish year class strength. | | | | S | | | | |
| " | 9 | E | Produce ms on pattern of long term change in a coastal groundfish community | | | | A | | | | |
| " | 10 | E | Produce status of stock document for lingcod | | | | S | | | | |
| | | | | | | | | | | | |

FORM 1

NOAA FISHERIES
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RESOURCE SUMMARY

APPROVAL SIGNATURE -> John F. Carr

TITLE -> Physiological Ecology of Groundfish

HQ CONTACT(S) ->

| TASK NAMES -> | Physiology | | | | |
|---|---|---|---|---|---|
| OBJECT CLASS | TASK #1<br>8LIA3ATO | TASK #2 | TASK #3 | TASK #4 | TOTALS |
| DIRECT LABOR | 238.6 | | | | 238.6 |
| PERS. BENEFITS | 35.3 | | | | 35.3 |
| TRAVEL | 6.0 | | | | 6.0 |
| TRANSPORTATION | 0.5 | | | | 0.5 |
| RENT, COMM., UTIL. | 3.0 | | | | 3.0 |
| PRINT/REPROD. | 0.5 | | | | 0.5 |
| CONTRACTS | 18.0 | | | | 18.0 |
| SUPPLIES/MATERIAL | 5.9 | | | | 5.9 |
| EQUIPMENT | 9.0 | | | | 9.0 |
| GRANTS | | | | | |
| TOTALS -> | 316.8 | | | | 316.8 |
| FTE (FTP) | 6.9 | | | | 6.9 |
| FTE (OTFTP) | | | | | |

| VESSELS # SEA DAYS ALLOC. | |
|---|---|
| 51 | |
| NOAA | CHARTERS |
| 0 | 16 |
| # FREE DAYS | |
| 35 | |

CROSS REFERENCES

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NOAA FISHERIES

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| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| PHYSIOLOGY | TIBURON | 6.9 | 316.8 | J. WHIPPLE | RESOURCE INFORMATION |

A. PROBLEM STATEMENT/OBJECTIVE: Managers need to understand how natural environmental factors and management can affect fish stocks. This task examines functional relationships between fishes and their host environments. Research consists of multidisciplinary, integrated studies designed to determine the inherent and environmental factors most affecting health (condition) growth, behavior and reproduction in important groundfish populations. The major goal is to understand, describe and explain how fish respond to changes in habitats and the implications these interactions have for management. The specific goal is to contribute to the assessment of groundfish stocks and to forecast recruitment several years in advance.

B.METHODOLOGY/APPROACH: Research includes comprehensive examinations and analyses of adult and juvenile specimens collected from commercial and sport groundfish fleets, from chartered fishing vessels and cruises aboard the NOAA ship, David Starr Jordan. Efforts are focused on important rockfish species: yellowtail, boccaccio and widow rockfish (Sebastes flavidus, S. paucispinus, S. entomelas). Earlier emphasis was on rockfish off Cordell banks, California. Later studies are being expanded to compare California rockfish to populations off the Northwest Coast. --Scientific information from analyses and supportive laboratory experiments are used to determine the most important characteristics of condition and reproduction to form measures of health and effective growth and fecundity. Studies include examinations of reproduction, gametogenesis, development, proximate analysis of tissues, estimates of disease and parasite damage, and determination of lipid cycles and other serum nutrients.
-- Results of the research are combined with oceanographic condition, reproductive variability and to place the species within the context of their habitats.

C. PRODUCT/SERVICES: Products of this research include written scientific reports and manuscripts, presentations at meetings, conferences, lectures and seminars. The products will contribute to the efficiency and long term variability of the fishery. Secondary outcomes are expected to provide management an efficient means to monitor the health of different stocks, year class production and to determine factors producing poor fishery products.

D. CLIENTS: Primary user of the research products are managers of the PMFC and other elements concerned with the groundfish fishery. Other users include researchers and fishery managers who need t know how fish growth, condition, survival and reproduction is affected by environmental and management factors.

CURRENT YEAR OPERATING PLAN

| FMC | REF. NO. | PAGE |
|---|---|---|
| SWR | 813 | 3 OF 5 |

EXECUTIVE SUMMARY

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Physiology | TIBURON | 6.9 | 316.8 | J. WHIPPLE | |

FORM 2 (CON'T)

E. CONTRACTS: University of California at Davis receives $2.0K for pathological analyses.. The F/V New Sea Angler receives approximatley $12,000 in payment for charter services to collect specimens. The remaining $4.0K will be used for chartering additional trips in the Northwest.

FORM 3

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

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|---|---|---|
| SWR | 813 | 4 OF 5 |

PERSONNEL SCHEDULE

| # NAME | TITLE | PAY PLAN/GRADE/STEP | % TIME | TASK # |
|---|---|---|---|---|
| 1. J. WHIPPLE | FISHERY BIOLOGIST | GS 14 | 100 | 8L1A3AT0 |
| 2. M. ELDRIDGE | FISHERY BIOLOGIST | GS 13 | 100 | " |
| 3. R. MACFARLANE | FISHERY BIOLOGIST | GS 12/6 | 100 | " |
| 4. S. SMITH | FISHERY BIOLOGIST | GS 11/6 | 100 | " |
| 5. B. JARVIS | BIOLOGY TECHNICIAN | GS 9/6 | 100 | " |
| 6. M. BOWERS | FISHERY BIOLOGIST | GS 7/6 | 100 | " |
| 7. E. NORTON | BIOLOGY TECHNICIAN | GS 6/1 | 100 | " |

FORM 4

NOAA FISHERIES
CURRENT YEAR OPERATING PLAN

| FMC | REF. NO. | PAGE |
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MILESTONE ARRAY

| TASK # | SEQ | MAE | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| 8L1A3AT0 | 1 | A | Collect adult and juvenile specimens of yellowtail rockfish species off Cordell Banks | - | - | - | - | - | - | - | - |
| " | 2 | A | Collect adult and juvenile specimens of yellowtail rockfishspecies the northwest coast (area to be determined (after initial survey) | - | - | - | - | - | - | - | - |
| " | 3 | A | Collect adult specimens of three rockfish species (yellowtail, bocaccio and widow) for fecundity measurements from several areas. | X | X | | | X | | X | |
| " | 4 | A | Do laboratory examinations and subsample analyses of above adults and juveniles. | - | - | - | - | - | - | - | - |
| " | 5 | E | Integrate data above with other relevant oceanographic data, and synthesize results to show relationship to reproductive success. | X | | | X | | X | | X |
| " | 6 | A | Conduct laboratory experiments with reproduction of yellowtail rockfish. | - | - | - | - | | | | |
| " | 7 | E | Integrate results with other groundfish tasks at the laboratory | X | | | X | | X | | X |
| " | 8 | M | Complete annual report to be part of Annual Rockfish Recruitment Report | | X | | | | X | | X |
| " | 9 | M | Complete manuscripts | X | | X | | X | | X | |
| " | 10 | M | Give presentations at Western Groundfish Conference | | J | | | | | X | |
| | | | | | | | | | | | |

FORM 1

# NOAA FISHERIES
## CURRENT YEAR OPERATING PLAN

| DATE | 10-17-88 |
|---|---|
| FMC | SWC |
| REF. NO. | 901 |
| PAGE | 1 OF 5 |

## RESOURCE SUMMARY

APPROVAL SIGNATURE John F. Carr

HQ CONTACT

TITLE Pacific Fisheries Environmental Group

| TASK NAMES | PFEG | | | | |
|---|---|---|---|---|---|
| OBJECT CLASS/TASK# | #1 8L1C5B | #2 | #3 | #4 | TOTAL |
| DIRECT LABOR | 417.1 | | | | 417.1 |
| PERS. BENEFITS | 62.6 | | | | 62.6 |
| TRAVEL | 12.0 | | | | 12.0 |
| TRANSPORTATION | 0.0 | | | | 0.0 |
| RENT, COMM., UTIL. | 10.0 | | | | 10.0 |
| PRINT/REPRODUCTION | 3.0 | | | | 3.0 |
| CONTRACTS | 28.0 | | | | 28.0 |
| SUPPLIES/MATERIALS | 10.0 | | | | 10.0 |
| EQUIPMENT | 12.3 | | | | 12.3 |
| GRANTS | 0.0 | | | | 0.0 |
| OTHER | 0.0 | | | | 0.0 |
| TOTALS | 555.0 | | | | 555.0 |
| FTE (FTP) | 9 | | | | 9 |
| FTE (OTFTP) | 2.3 | | | | 2.3 |

**VESSELS**

| #SEA DAYS ALLOC. | |
|---|---|
| 0 | |
| NOAA | CHARTERS |
| 0 | 0 |
| # FREE DAYS | |
| 0 | |

CROSS REFERENCES

FORM 2

# NOAA FISHERIES

## CURRENT YEAR OPERATING PLAN

## EXECUTIVE SUMMARY

| FMC | REF.NO. | PAGE |
|---|---|---|
| SWC | 901 | 2 OF 5 |

| TITLE | PRIN. FAC. | FTE | $K | UNIT LEADER | LINE ITEM NAME |
|---|---|---|---|---|---|
| Fishery/Environmental Climatology Modelling and Forecasting | Monterey, CA | 11.3 | 555.0 | A. Bakun | Information Analysis & Dissemination |

### A. PROBLEM STATEMENT / OBJECTIVE

Natural variability interacts with effects of human actions in controlling the population dynamics of fishery resource populations. The Objective is to develop effective methodologies for incorporating information on natural environmental and biological variability in fisheries scientific procedures and activities.

### B. METHODOLOGY / APPROACH

An integrated program incorporates the following: I. Development of environmental index time series (i.e., research, calibration, verification, production, distribution, update, and consultative interpretation; II. Diagnostic studies of ecological anomalies (El Nino, etc., fishery resource connotations); III. Identification of environmental-biological causal linkages (comparative studies, exploratory data analysis, empirical modelling, etc.); IV. Development of environment dependent fishery modelling methodology; V. Development of appropriate biological time series for calibration and verification.

### C. PRODUCT / SERVICES

Research papers, technical reports, specialized data products and analyses, consultative and interpretive services, standard data products and routine updates.

### D. CLIENTS

NMFS fisheries research projects, various NOAA laboratories, other federal, state and university research projects, federal and state regulatory agencies.

### E. CONTRACTS

The task uses U.S. Navy computer facilities at FNOC in Monterey (approx. $5K); there is a data file maintenance contract with Compass Systems, Inc. (approx. $18K); equipment maintenance contract (approx. $4.5K).

FORM 3

# NOAA FISHERIES

## CURRENT YEAR OPERATING PLAN

## PERSONNEL SCHEDULE

FMC: SWC | REF.NO.: 901 | PAGE 3 OF 5

| # NAME | TITLE | PAY PLAN/GRADE/STEP | | | % TIME | TASK # |
|---|---|---|---|---|---|---|
| Bakun, A. | Supervisory Oceanographer | GM | 15 | 0 | 100 | 8L1C5BT0 |
| Parrish, R. | Fishery Biologist | GM | 14 | 0 | 100 | |
| Mendelssohn, R. | Operations Res. Analyst | GS | 13 | 8 | 100 | |
| Sund, P. | Oceanographer | GS | 13 | 0 | 100 | |
| Husby, D. | Oceanographer | GS | 12 | 8 | 100 | |
| Norton, J. | Oceanographer | GS | 12 | 3 | 100 | |
| Mallicoate, D. | Statistician | GS | 11 | 4 | 100 | |
| Troian, R. | Secretary | GS | 6 | 8 | 100 | |
| Mason, J. | Fishery Biologist | GS | 7 | 1 | 50 | |
| Garrett, L. | Fishery Biologist | GS | 5 | 1 | 100 | |
| Nichols, T. | Statistical Analyst | GS | 5 | 1 | 80 | |
| Vacant | Oceanographer | GS | 12 | 1 | 100 | |

FORM 4

# NOAA FISHERIES
## CURRENT YEAR OPERATING PLAN

## MILESTONE ARRAY

| FMC | REF.NO. | PAGE |
|---|---|---|
| SWC | 901 | 4 OF 5 |

| TASK# | SEQ | M,A,E | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 1 | 2 | 3 | 4 | 90 1 | 2 | 91 1 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8L1C5BTO | 1 | A | Production of environmental index series for the California Current and other ecosystems (monthly updates, mailings, etc.). | x--- | --- | --- | --- | --- | --- | --- | ---x |
| | 2 | A | Development, evaluation, and time/space analysis of an expanded suite of California Current environmental signals. | x--- | --- | --- | --- | --- | --- | --- | ---x |
| | 3 | E | Development of (a) surface and (b) subsurface temperature time series for California Current ecosystem analyses. | | | (a) J | | | (b) A | | |
| | 4 | M | Paper for PACLIM AGU volume: Comparison of winter warming event in the coastal California Current 1954-1986. | D | | | | | | | |
| | 5 | A | Cooperative research on recruitment/environment relationships in the demersal and littoral complexes. | x--- | --- | --- | --- | --- | --- | --- | ---x |
| | 6 | E | Invited presentation at Western Groundfish Conference: Scales of variability and groundfish recruitment. | | J | | | | | | |
| | 7 | A | Development of enhanced theoretical framework for investigating physical-biological interaction in the ocean. | x--- | --- | --- | --- | --- | --- | --- | ---x |
| | 8 | E | Preparation of a series of papers on applications of maritime data to studies of surface forcing of ocean variability | D | | | S | | | | |
| | 9 | A | Time series analysis of fisheries and population dynamics of fishes in the demersal and littoral complexes. | x--- | --- | --- | --- | --- | --- | --- | ---x |
| | 10 | M | Journal paper on Monterey Bay recreational fisheries 1959-86 | | | | J | | | | |
| | 11 | A | Development of improved mathematical methodologies for fishery/environment empirical analysis and modelling. | x--- | --- | --- | --- | --- | --- | --- | ---x |

FORM 4

# NOAA FISHERIES
## CURRENT YEAR OPERATING PLAN

## MILESTONE ARRAY

| FMC | REF.NO. | PAGE |
|---|---|---|
| SWC | 901 | 5 OF 5 |

| TASK# | SEQ | M,A,E | MAJOR MILESTONES, ACTIVITIES, AND EVENTS | FY 89 | | | | 90 | | 91 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 |
| | 12 | A | Cooperative (with CF&G) California pelagic fishery data base update and analysis. | x- | --- | --- | --- | --- | --- | --- | --x |
| | 13 | E | Update 1985-88 mackerel/sardine/jack mackerel and sea survey data base s | | | M | | | | | |
| | 14 | E | Cooperative (with CF&G and Coastal Division) statistical evaluation of the southern California jack mackerel, sardine, mackerel sampling program. | | M | | | | | | |
| | 15 | E | Analysis of population density and environmental control on condition factors in three California Current pelagic fishes. | | | A | | | | | |
| | 16 | A | Cooperative identification and interregional comparative evaluation of empiral environment/recruitment models. | x- | --- | --- | --- | --- | --- | --- | --x |
| | 17 | E | Reanalysis of Peruvian anchoveta data to improve recruitment estimates and to develop models for understanding and forecasting the dynamics of the population. | | J | | | | | | |
| | 18 | E | Paper on multivariate time series techniques: Examples from Gulf of Guinea tuna and sardinella fisheries. | D | | | | | | | |
| | 19 | E | Completion of development and evaluation of environment-dependent albacore fishery forecast model. Book or series of papers submitted for publication | | | | | O | | | |
| | 20 | E | Report on albacore age structure and recruitment variability with relationships to large scale environmental factors | | | | J | | | | |
| | 21 | E | Tech. Memo on 1988 AMERIEZ Physical Oceanography | D | | | | | | | |
| | 22 | M | Journal paper on 1988 AMERIEZ results | | | J | | | | | |

# FY 1989 CURRENT YEAR OPERATING PLAN

SPECIAL INTEREST ITEM SUMMARY

FMC SWR | 

TITLE ($K)

| CYOP REF # | Aantarctic Res. Prog. | West Coast Groundfish | Ecosystems Stk. Abund. | HI Stk. Mgmt. Plan | UNLV Lim'l. Research | OTHER | TOTAL |
|---|---|---|---|---|---|---|---|
| 601 | $ 1,300.0 | $ | $ | $ | $ | $ | $ 1,300.0 |
| 811 | | 421.4 | | | | 7.5 | 428.9 |
| 812 | | 151.6 | 81.0 | | | 20.0 | 252.6 |
| 813 | | 270.0 | | | | 46.8 | 316.8 |
| 733 | | | | 400.0 | | | 400.0 |
| 061 | | | | | 400.0 | | 400.0 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| TOTAL | 1,300.0 | 843.0 | 81.0 | 400.0 | 400.0 | 74.3 | $ 3,098.3 |

FY 1989 CURRENT YEAR OPERATING PLAN

| FMC | PAGE |
|---|---|
| SWR | 2 OF 3 |

SPECIAL INTEREST ITEM SUMMARY

TITLE ($K)

| CYOP REF # | Habitat Research | Tib. Lab. Study | Prot. Spec. Monk Seal | Fish. Stat. (SWR) | Fish. Stat. (SWC) | OTHER | TOTAL |
|---|---|---|---|---|---|---|---|
| 701 | $ 5.0 | $ | $ | $ | $ | $ 544.2 | $ 549.2 |
| 710 | 68.2 | | | | | 94.2 | 162.4 |
| 721 | 79.3 | | | | | 126.2 | 205.5 |
| 730 | 50.9 | | | | | 162.5 | 213.4 |
| 732 | 76.5 | | | | | 234.9 | 311.4 |
| 740 | 10.0 | | | | | 324.1 | 334.1 |
| 750 | 39.1 | | 164.0 | | | 132.2 | 335.3 |
| various | 140.0 | | | | | | 140.0 |
| 062 | | 94.0 | | | | | 94.0 |
| 201 | | | | 82.0 | | 85.7 | 167.7 |
| 052 | | | | | 177.1 | 88.2 | 265.3 |
| 053 | | | | | 178.9 | | 178.9 |
| | | | | | | | |
| | | | | | | | |
| TOTAL | 469.0 | 94.0 | 164.0 | 82.0 | 356.0 | 1,792.2 | $ 2,957.2 |

FY 1989 CURRENT YEAR OPERATING PLAN



SPECIAL INTEREST ITEM SUMMARY

TITLE ($K)

| CYOP REF # | Habitat Conservation | Fish. Mkt. Development | Mahi Mahi Strategies | | | OTHER | TOTAL |
|---|---|---|---|---|---|---|---|
| 103 | $ 28.0 | $ | $ | $ | $ | $ 331.4 | $ 359.4 |
| 204 | | 101.0 | 188.0 | | | 101.7 | 390.7 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| TOTAL | 28.0 | 101.0 | 188.0 | | | 433.1 | $ 750.1 |

NOTE: SWR SPECIAL INTEREST ITEMS TOTAL $4,506K

FY 1989 CURRENT YEAR OPERATING PLAN

SPECIAL INTEREST ITEM DESCRIPTION

| FMC | PAGE |
|---|---|
| SWR | 1 OF 1 |

TITLE UNLV Limnological Research on Lake Mead AMOUNT ($K) 400

A. PROBLEM STATEMENT/OBJECTIVE: Fishing is one of the most important recreational activities of the Lake Mead National Recreation Area with an estimated annual economic value in excess of $70 million. Major decreases, however, have occurred in the fisheries of Lake Mead over the past two decades. The decline in the numbers of threadfin shad, the principal forage species for largemouth and striped bass, appears to be a major contributor to the fisheries problems. Studies indicate that the shad population decline is related to a decrease in lake fertility that occurred after dams were built upstream in the 1960's. As the reservoirs upstream slowly filled, they cut off the phosphorus-rich sediments that historically fertilized the upper basin of Lake Mead. As the phosphorus levels declined, so did the algae, zooplankton and threadfin shad--vital components of the lake's food chain.

B. METHODOLOGY/APPROACH: Large-scale fertilization has been successfully practiced in some North American lakes to enhance fish stocks. The Lake Mead Fertilization Project is a three-year experiment designed to investigate the management potential of fertilization for improving the sport fisheries of Lake Mead. The experiment involves an annual application of up to 25,000 gallons of ammonium polyphosphate to 20,000 acres of the Overton Arm of Lake Mead.

C. PRODUCT/SERVICES: Recommendations on the biological and economical feasibility of increasing fisheries productivity by means of artificial fertilization.

D. CLIENTS: Recreational fishermen

E. CONTRACTS: University of Nevada, Las Vegas $400K - Lake Mead fertilization experiment for improved fisheries.

FY 1989 CURRENT YEAR OPERATING PLAN

SPECIAL INTEREST ITEM DESCRIPTION

| FMC | PAGE |
|---|---|
| SWR | 1 OF 1 |

TITLE : West Coast Groundfish AMOUNT ($K) 843

A. PROBLEM STATEMENT/OBJECTIVE: Provide fundamental knowledge of West Coast Groundfish resources and related industries; subsequently determine potential productivity of groundfish resources; finally formulate and explore alternative management policies which may be considered by the Pacific Fishery Management Council (PFMC) and other regulatory agencies. Requirements for this information has been defined by the scientific and Statistical Committee and Groundfish Plan Deveopment Teams of the PMFC. This information is provided to assist the PFMC and other resource managers in the design and implementation of plans which provide optimum benefits to users.

B. METHODOLOGY/APPROACH: Fundamental research on physiology and growth, reproduction, community interactions including competition and predation, and standard fishery dynamics provides a basis for estimating resource productivity. Options for harvesting and allocation are explored through mathematical modelling. Methods and findings receive extensive peer and agency review.

C. PRODUCT/SERVICES: Primary product is contribution to the PMFC's Groundfish FMP and supporting documents; secondary products are scientific papers and technical reports, interagency communications and reviews, and responses to requests for information.

D. CLIENTS: Primary clients are the PMFC and other State and Federal Government agencies. Other clients include user and interest groups.

E. CONTRACTS: A biologist familiar with fishery recruitment and oceanography is being retained on an IPA from San Francisco State University (25.3K). Pathological analyses conducted by U. C. Davis(2.0K). Fishing vessels are chartered on a contractual basis (16.0K).

NOAA FISHERIES

FY 1989 CURRENT YEAR OPERATING PLAN

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|---|---|
| SWR | 1 OF 1 |

SPECIAL INTEREST ITEM DESCRIPTION

TITLE: HAWAII STOCK MANAGEMENT PROGRAM    AMOUNT ($K) 400.0

A. PROBLEM STATEMENT/OBJECTIVE: RECENT EVIDENCE HAS DOCUMENTED DECLINES IN HAWAII'S NEARSHORE FISHERIES RESOURCES; IN RESPONSE, A RESEARCH INITIATIVES HAVE BEEN DEVELOPED TO DETERMINE THE CAUSES OF THIS DECLINE AND TO TAKE REMEDIAL ACTION. ISSUES OF CONCERN INCLUDE HABITAT DEGRADATION OR CHANGE, POLLUTION, AND CHANGES IN MARINE RESOURCE AVAILABILITY. THE HAWAII STOCK MANAGEMENT PROGRAM IS BEING DEVELOPED TO ADDRESS PROBLEMS CONFRONTING THE COASTAL MARINE ENVIRONMENT. OBJECTIVES WILL BE AIMED AT STRENGTHENING THE UNDERSTANDING OF NEARSHORE FISHERY RESOURCES & DEVELOPING STRATEGIES TO REVERSE APPARENT STOCK DECLINES THROUGH IMPROVED MANAGEMENT OF THE STOCK AND HABITAT.

B. METHODOLOGY/APPROACH:

INNOVATIVE RESEARCH ON NEARSHORE FISHERY RESOURCES OF IMPORTANCE TO RECREATIONAL & COMMERCIAL FISHERMAN IN HAWAII WILL BE SOLICITED THROUGH ANNOUNCEMENT OF AVAILABILITY OF FUNDS IN THE FEDERAL REGISTER AND CBD. RESEARCH TOPICS OF INTEREST FOR THIS PROGRAM INCLUDE, BUT ARE NOT LIMITED TO POPULATION DYNAMICS OF NEARSHORE RESOURCES, STOCK ASSESSMENT, CONSERVATION & MANAGEMENT OF RESOURCES, ENHANCEMENT OF IMPORTANT STOCKS, HABITAT QUALITY AND CHANGES IN HABITAT AVAILABILITY, ECOLOGICAL STUDIES OF CARRYING CAPACITY, ANALYSIS OF LARVAL AND JUVENILE HABITAT REQUIREMENTS, RESOURCE USER CONFLICTS AND ECONOMIC RESEARCH, AND IMPROVEMENTS TO FISHERIES DATA COLLECTION AND MANAGEMENT.

C. PRODUCT/SERVICES: WITH NEW SCIENTIFIC FINDINGS FROM THIS RESEARCH, NMFS WILL BE ABLE TO ASSIST THE STATE OF HAWAII AND ITS LOCAL GOVERNMENT TO DEVELOP STRATEGIES TO REVERSE APPARENT STOCK DECLINES THROUGH IMPROVED MANAGEMENT OF THE STOCK AND HABITAT.

D. CLIENTS: STATE AND LOCAL GOVERNMENT, RECREATIONAL AND COMMERCIAL FISHERY INDUSTRIES IN HAWAII AND THE U.S.

E. CONTRACTS: CONTRACT, GRANTS AND COOPERATIVE AGREEMENTS WILL BE USED TO FUND RESEARCH PROJECTS.

FORM D

NOAA FISHERIES

FY 1989 CURRENT YEAR OPERATING PLAN

SPECIAL INTEREST ITEM DESCRIPTION

| FMC | PAGE |
|---|---|
| SWR | 1 OF 1 |

TITLE Antarctic Ecosystem Research AMOUNT ($K) 1300.0

A. PROBLEM STATEMENT/OBJECTIVE: This task advises the U. S. Delegation to the Convention for the Conservation of Antarctic Marine Living Resources (CCAMLR) as to the abundance and productivity of Antarctic fishes, krill and their predators.

B. METHODOLOGY/APPROACH: The NOAA ship Surveyor will make a 4-month cruise to the Antarctic during the 1988/89 field season. A krill survey will be conducted in the Bransfield Strait Area and a pre-recruit survey for fish at South Georgia. A shore camp will also be established to determine vital roles for pinniped and bird populations.

C. PRODUCT/SERVICES: Products include reports of field activities, draft position papers, research reports, and program planning documents.

D. CLIENTS: U. S. Delegation to CCAMLR

E. CONTRACTS:

| | | |
|---|---|---|
| Texas A&M Univ. (J. Wormuth) | $50K | Direct krill sampling |
| Moss Landing Mar. Lab (V. Loeb) | 63K | Ichthyoplankton sampling |
| Univ. of Washington (M. Macaulay) | 44K | Acoustic krill survey |
| Scripps Inst. Oceanography (M. Huntley) | 36K | Krill growth experiments |
| Univ. of Rhode Island (J. McKenna) | 20K | Pre-recruit survey |

FORM D

NOAA FISHERIES

FY 1989 CURRENT YEAR OPERATING PLAN

| SPECIAL INTEREST ITEM DESCRIPTION | (062) | FMC SWR | PAGE 1 OF 1 |
|---|---|---|---|

TITLE Tiburon Lab Study AMOUNT ($K) 94.0

A. PROBLEM STATEMENT/OBJECTIVE: Relocate and/or co-locate the current Tiburon Laboratory (SWFC-NMFS) to a location providing the physical, technical, and research environment needs designed to enhance and foster near coast fisheries research in species of interest to the WFMC, the several states and the NMFS.

B. METHODOLOGY/APPROACH: Support and encouragement to various federal and state offices and Universities interested in acquiring the present Tiburon Lab site in Marin County.

C. PRODUCT/SERVICES: Money

D. CLIENTS: State, federal fisheries management interests.

E. CONTRACTS: Architectural, engineering drawings, specifications and plans for new lab.

FORM D

NOAA FISHERIES

FY 1989 CURRENT YEAR OPERATING PLAN

SPECIAL INTEREST ITEM DESCRIPTION

FMC SWR



TITLE Mahi Mahi Export Strategies AMOUNT ($K) 188

A. PROBLEM STATEMENT/OBJECTIVE: The Congress has appropriated moneys to carry out studies to facilitate exports of mahimahi in the Pacific island areas. Given that mahimahi production in Hawaii and other island areas are limited, the objective will be to undertake studies and develop methods to boost exports of fish in the western Pacific area.

B. METHODOLOGY/APPROACH: The methodology will be to issue an RFP and select a contractor best suited to investigate the subject and develop and recommend strategies to boost exports of fish from the Pacific island area.

C. PRODUCT/SERVICES: Products and services will be manuals or reports outlining strategies and and recommendation which those in the private sector may implement to boost fishery exports.

D. CLIENTS: The fishing industry of the western Pacific area including wholesalers, brokers, and exporters.

E. CONTRACTS: None at this time.

FY 1989 CURRENT YEAR OPERATING PLAN

SPECIAL INTEREST ITEM DESCRIPTION



TITLE: ECOSYTEMS, NEARSHORE FISHERIES AND STOCK ABUNDANCE    AMOUNT ($K) 81.0

A. PROBLEM STATEMENT/OBJECTIVE: Provide managment information for nearshore fisheries. Elucidate position and function of nearshore fish resources in the ecosystem.

B. METHODOLOGY/APPROACH: The work has two focuses. First, work on the lingcod resource is enhanced, and will provide an improved basis for managing the intense inshore recreational and commercial fisheries. The second focus uses underwater (scuba) observations to determine the structure and dynamics of nearshore communities or ecosystems, with emphasis on their fish components.

C. PRODUCT/SERVICES: Two manuscripts or reports are scheduled, one on the status of the lingcod resource and the second on patterns of long-term change in a nearshore ecosystem.

D. CLIENTS: The lingcod status of stocks document will be used directly by the Groundfish Plan Development Team of the PMFC. The manuscript on patterns of long-term change will help address difficult problems such as effects of global climate change.

E. CONTRACTS: None

FORM D NOAA FISHERIES

FY 1989 CURRENT YEAR OPERATING PLAN

SPECIAL INTEREST ITEM DESCRIPTION

| FMC | PAGE |
|---|---|
| SWR | 1 OF 1 |

TITLE HAWAIIAN MONK SEAL AMOUNT ($K) 164.0

A. PROBLEM STATEMENT/OBJECTIVE: THIS TASK MONITORS THE HAWAIIAN MONK SEAL AND SEA TURTLE POPULATIONS, PERFORMS RESEARCH TO IDENTIFY IMPEDIMENTS TO RECOVERY OF THESE ENDANGERED AND THREATENED SPECIES, AND EXPERIMENTS WITH RECOVERY ACTIONS DIRECTED AT INCREASING THE POPULATION SIZE. THE NMFS IS RESPONSIBLE FOR THIS WORK UNDER THE MARINE MAMMAL PROTECTION ACT & THE ENDANGERED SPECIES ACT. EFFORTS INCLUDE IMPLEMENTATION OF THE RECOVERY PLAN FOR THE MONK SEAL & THE PENDING DRAFT RECOVERY PLAN FOR HAWAIIAN SEA TURTLE.

B. METHODOLOGY/APPROACH: THE PRINCIPAL RESEARCH IN THIS TASK IS PERFORMED BY FIELD TEAMS AT BREEDING SITES IN THE NORTHWESTERN HAWAIIAN ISLANDS. FLIPPER TAGS ARE USED TO COLLECT DATA ON SURVIVAL, REPRODUCTION, GROWTH RATE MOVEMENTS, POPULATION SIZE, AND COMPOSITION. SOME MONK SEAL PUPS ARE COLLECTED FOR TEMPORARY CAPTIVE MAINTENANCE TO INCREASE SURVIVORSHIP. REHABILITATION OF SOME '88 PUPS WILL CONTINUE AND THESE WILL BE RELEASED IN THE SPRING OF 1989. ASSESSMENTS ARE CONDUCTED OF SEA TURTLES AND THEIR FORAGING HABITAT IN COASTAL WATERS OFF THE MAIN HAWAIIAN ISLANDS.

C. PRODUCT/SERVICES: POPULATION DATA, IMPEDIMENTS TO RECOVERY WHICH ARE IDENTIFIED, AND RECOVERY METHODOLOGIES ARE SUMMARIZED INTO TECHNICAL REPORTS.

D. CLIENTS: THE PRIMARY CLIENTS ARE THE NMFS, MARINE MAMMAL COMMISSION, FISH AND WILDLIFE SERVICE, AND HAWAIIAN MONK SEAL RECOVERY TEAMS. THE CLIENTS USE THE PRODUCTS TO RECOMMEND AND PLAN FUTURE RESEARCH, INITIATE MANAGEMENT STRATEGIES, AND TAKE APPROPRIATE RECOVERY ACTIONS TO ENHANCE THE SPECIES SURVIVAL STATUS.

E. CONTRACTS: DECAPEPTYL EFFECTS ON SERUM TESTOSTERONE IN NORTHERN ELEPHANT SEAL ($5K); DNA FINGER-PRINTING IN HAWAIIAN MONK SEALS ($5K); DETERMINATION OF PATERNITY OF '88 MONK SEAL PUPS AT LAYSAN ISL. ($5K); RELATIONSHIP OF ALGAL/FORAGE TO PARASITE TRANSMISSION & FIBROPAPILLOMAS IN GREEN TURTLES ($5K).

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TITLE Fisheries Market Development AMOUNT ($K) 101

A. PROBLEM STATEMENT/OBJECTIVE: The Southwest Region has many fishery resources which enter international trade channels, primarily as exports to Pacific Rim countires such as Japan. These resources (squid, sablefish, sea urchin roe, groundfish, jack mackerel and hagfish) are important to the seafood industry; however, exports are often impeded by availability of competing resources or tariff and non-tariff barriers. The objective is to identify trade barriers to specific products and develop strategies to increase the market value of such products.

B. METHODOLOGY/APPROACH: Data on resource availability, trade channels and flows, competing products, trade and technological barriers will be collected, collated and analyzed. Strategies and recommendations will be made to both industry and government on how foreign markets can be developed and used to our advantage.

C. PRODUCT/SERVICES: Reports and memoranda will be developed and distributed to both government and industry. The reports and memoranda will include recommendations on how to improve market access and the performance of U.S. seafood products in foreign and domestic markets.

D. CLIENTS: In general, clients will be wholesalers, processors, brokers and exporters of U.S. Seafood products. In addition government organizations such as NMFS/NOAA headquarters, Office of the U.S. Trade Representative and Department of State may also use the information generated.

E. CONTRACTS: None at this time.

FORM D

NOAA FISHERIES

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TITLE Fishery Statistics AMOUNT ($K) 356.0

A. PROBLEM STATEMENT/OBJECTIVE: To provide timely and accurate fisheries data and information required for planning and management of Pacific Ocean fisheries to states, councils, territories, and common wealth agencies. To provide the computer technology support services which enable the research and management staff to efficiently and effectively meet the Center's mission in the management of the living marine resources.

B. METHODOLOGY/APPROACH: Fishery data are collected primarily by state agencies and then accumulated, compiled and maintained in a regional data base system. FIN provides data summaries and answers data requests from all qualified users. The ITS serves as a staff unit to assist users in establishing computer hardware and software systems including the design of statistical and research data bases.

C. PRODUCT/SERVICES: The FIN provides resources and technical assistance to state, territorial, and commonwealth fisheries agencies as a cooperative effort to establish and maintain regional data networks to meet informational requirement of the MFCMA. ITS serves 1) as the technical advisor for the Director's Office in the development of long range and short range ADP plans and in the recommendations for the transition from obsolete to next generation computer and telecommunication systems and 2) as the service unit for the La Jolla's staff by developing and implementing management systems, maintaining administrative systems, providing hardware/software consulting services, and conducting/providing user training programs.

D. CLIENTS: Users of FIN's data banks include state and federal government agencies, university researchers, consulting firms and industry. The users of the services are the management, scientific, technical, and administrative personnel at the La Jolla Laboratory. ITS interacts with the Southwest Regional Office and the other laboratories of the Southwest Fisheries Center. ITS provides the liaison with NOAA Fisheries Headquarters and other Fisheries Centers.

E. CONTRACTS: One contract with the Pacific Marine Fisheries Commission (PMFC) for $35K as the SWFC share in support of the west coast fisheries data base.

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TITLE Fishery Statistics Information AMOUNT ($K) 82.0

A. PROBLEM STATEMENT/OBJECTIVE: Program objectives are to investigate and evaluate unutilized or underutilized fisheries resources, new fishing techniques, gear and areas for deployment. In the SWR, state regulations -- due to catches of marine mammals, seabirds, prohibited species and conflicts with other users -- prohibit the use of gill nets in many areas historically fished with such gear. It is, therefore, necessary and desirable to identify alternative fisheries, fishing gear and techniques. In addition, key impediments to the development and expansion of new and existing fisheries are identified and actions are taken to overcome impediments and take advantage of opportunities available to the fishing industry.

B. METHODOLOGY/APPROACH: Alternative fisheries and gear techniques are identified through field testing of new fishing gear or through alternative means of deployment. Foreign markets are surveyed for types of fish and fish products available to fishermen in the SWR, but currently not utilized or underutilized. In many cases, the life history of the underutilized species are also researched and documented. This information is used by fishermen and fishery managers. Methods of harvesting, processing and marketing underutilized species are identified, tested on a small scale, and evaluated. If successful, the information is made available to fishermen, particularly to those fishermen who have been impacted by prohibitory gear regulations or in cases where conflicts between resource users have escalated.

C. PRODUCT/SERVICES: Products and services range from informal to formal delivery to the fishing industry of the results of investigations on new fishing technology, and fisheries resources that may yield economic return. Results are also delivered via formal and informal meetings with industry, through regional newsletters, and through formal scientific publications. Recent products and services have led to the development of a multimillion dollar sea urchin fishery and, more recently, the development of a growing hagfish fishery.

D. CLIENTS: Principal clients are fishermen, processors, and exporters seeking new fisheries, processing techniques, and fish and fish products for export. Information is also supplied to NOAA-Fisheries in support of management and trade analysis needs.

E. CONTRACTS: None at this time.

FORM D

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TITLE HABITAT RESEARCH

AMOUNT ($K) 469.0

A. PROBLEM STATEMENT/OBJECTIVE: IN THE CENTRAL PACIFIC OCEAN, SEVERAL REAL AND POTENTIAL THREATS TO FISHERIES HABITAT EXIST. THE ACTIVITIES OF THE FISHERIES HABITAT RESEARCH TASK ARE AIMED AT DETERMINING HOW IMPORTANT ELEMENTS OF THE AFFECTED ECOSYSTEMS VARY, SO THAT POTENTIAL IMPACTS OF THESE ACTIVITIES CAN BE ASSESSED. PARTICULAR ATTENTION IS PAID TO EVALUATING HABITATS OF ALL LIFE STAGES OF IMPORTANT SPECIES.

B. METHODOLOGY/APPROACH: BIOLOGICAL AND PHYSICAL DATA ARE COLLECTED BY SAMPLING ABOARD A VARIETY OF VESSELS, BY DIRECT OBSERVATION WITH SCUBA, OR BY CONDUCTING LABORATORY EXPERIMENTS ON LIVE ANIMALS. FOR MOST OF THE STUDIES, EMPHASIS IS PLACED ON DEVELOPING A TIME SERIES OF OBSERVATIONS TO ALLOW A BETTER UNDERSTANDING OF THE NATURAL VARIABILITY OF IMPORTANT SPECIES AND TO ESTABLISH A BASELINE FOR JUDGING THE EFFECTS OF PERTURBATIONS TO THE ECOSYSTEM.

C. PRODUCT/SERVICES: THE RESULTS OF THE RESEARCH WILL BE PUBLISHED BOTH AS ADMINISTRATIVE REPORTS AND AS JOURNAL ARTICLES.

D. CLIENTS: RESULTS OF THE RESEARCH, INCLUDING THE ANALYSES OF FIELD AND LABORATORY EXPERIMENTS, WILL BE USED BY THE NMFS SOUTHWEST REGION, THE WESTERN PACIFIC REGIONAL FISHERY MANAGEMENT COUNCIL, NOAA'S OCEAN MINERALS AND ENERGY DIVISION, THE MINERALS MANAGEMENT SERVICE, CONSERVATION GROUPS, PRIVATE CONSULTANTS AND CONTRACTORS, AND STATE OF HAWAII AGENCIES.

E. CONTRACTS:

FORM D

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TITLE Fishery Biologist - Northern Area    AMOUNT ($K) 28.0

A. PROBLEM STATEMENT/OBJECTIVE:

The NOAA/Fisheries-Southwest Region Habitat Conservation Branch, Northern Area Office is responsible under the FWCA to conserve marine, estuarine, and anadromous fish resources and their habitats in San Francisco Bay. Extensive coordination with State and Federal resource and development agencies, and is critical to conserve vital habitats threatened by development throughout the Bay area.

B. METHODOLOGY/APPROACH:

Historically, more than 75% of California's coastal wetland and estuarine habitats have been eliminated through dredging, filling, and water developments within the State's bays and estuaries. The Northern Area Fishery Biologist position provides the Region with the professional capability to work through the Federal permitting system of the San Francisco District of the Corps of Engineers, to see that marine, estuarine, and anadromous fishery habitat concerns are translated into project modifica- or mitigation programs, to conserve those valuable habitats. Annually, the position enables the to address the cumulative habitat impacts resulting from the Districts permit load of more than 150 applications. In addition, the position requires extensive reviews of EIS's and EIR's prepared under the mandates of NEPA, and CEQA, to address early-on the impacts of the major project situations as they affect resources of concern to NOAA/Fisheries. Such direct input to the planning and develp- processes within the Bay is also coordinated with Region IX of the EPA, which is critically important now that San Francisco Bay has been added to the EPA national estuarine program.

C. PRODUCT/SERVICES:

The position enables the Northern Area Office to ensure the conservation of marine, estuarine, and anadromous fisheries habitats throughout San Francisco Bay. By ensuring that NOAA/Fisheries habitat concerns are incorporated into individual project designs, and mitigation plans within the Bay, the Region, in cooperation with other resource agencies, has been able to significantly reduce the rate of cumulative habitat loss within the Bay, in keeping with NOAA's National Habitat Protection Policy.

D. CLIENTS:

NOAA/Fisheries clients include private, local, state, and Federal interests involved in developing and maintaining viable coastal, anadromous, and estuarine habitats. Direct Regional involvement also assures early coordination with permit applicants and developers, saving both time and money.

E. CONTRACTS:

None with this initiative.